Exhibit 6

	Page 1
1	UNITED STATES DISTRICT COURT
	DISTRICT OF NEW JERSEY
2	
3	
	IN RE: JOHNSON & JOHNSON MDL NO:
4	TALCUM POWDER PRODUCTS 16-2738 (MAS)(RLS)
	MARKETING, SALES PRACTICES,
5	AND PRODUCTS LIABILITY
	LITIGATION
6	
7	
	Monday, July 8, 2024
8	
9	
10	
11	Remote Deposition of JOHN KORNAK, PhD,
12	conducted at the location of the witness in Vienna,
13	Austria, commencing at 10:04 a.m., by and before
14	Robin L. Clark, Registered Professional Reporter and
15 16	Notary Public in and for the Commonwealth of
17	Pennsylvania and the State of New Jersey.
18	
19	
20	
21	
22	
23	
24	

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LEVIN, PAPANTONIO, RAFFERTY LAW FIRM BY: CHRISTOPHER V. TISI, ESQ.	3 JOHN KORNAK, PhD
3 BY: CHRISTOPHER V. TISI, ESQ. 316 South Baylen Street, Suite 600	BY MR. TISI: 7
4 Pensacola, Florida 32502-5996	4 BY MS. LEHMAN: 407
850-435-7176	5
5 ctisi@levinlaw.com	6 EXHIBITS
For the Plaintiffs	7 NUMBER DESCRIPTION MARKED
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7 BEASLEY ALLEN LAW FIRM	9 Exhibit 1 Expert Report 10
8 BY: MARGARET M. THOMPSON, ESQ.	10 Exhibit 2 Curriculum Vitae 29
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9 Montgomery, Alabama 36104	Article from NIH
800-898-2034	13
10 margaret.thompson@beasleyallen.com	Exhibit 5 ASCO Publication 182
For the Plaintiffs	14
12	Exhibit 6 Harris 2024 Article 191
ASHCRAFT & GEREL, LLP	15
BY: MICHELLE A. PARFITT, ESQ.	Exhibit 7 Terry Paper 2013 193
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14 Washington, D.C. 20006	Exhibit 8 O'Brien (2024) Paper 10
202-759-7648	17
15 mparfitt@ashcraftlaw.com	Exhibit 9 Katie O'Brien, PhD, Bio 129
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18 KING & SPALDING, LLP	19
BY: KATHRYN S. LEHMAN, ESQ.	Exhibit 11 Nicolas Wentzensen, MD, 133
19 1180 Peachtree Street, N.E.	20 PhD, Bio
Atlanta, Georgia 30309	21 Exhibit 12 Clarice Weinberg, PhD, bio 130
20 404-572-2716	22 Exhibit 13 OC3 Cohort Profile 136
klehman@kslaw.com	23 Exhibit 14 IARC Monographs on the 149
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23	24 Carcinogenic Hazards to
24	Humans
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3 & HENRICH, P.C.	Exhibit 17 Sister Study Questionnaire 215
BY: BRANDY HARRIS, ESQ.	3
4 3 Executive Campus, Suite 310	Exhibit 18 Gonzalez Study 112
Cherry Hill, New Jersey 08002	4
5 856-317-7188	Exhibit 20 Royston and White Paper 315
bharris@rmh-law.com	5
6 For the Personal Care Products	Exhibit 21 JAMA Article 299
Council	6
	Exhibit 22 Chang Study 115
7	7
8	Exhibit 23 Trabert Article 414
ALSO PRESENT:	8
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9 JEFFERY WRIGHT	Exhibit 24 Publication History 165
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1 DEPOSITION SUPPORT INDEX	1 Austria, correct?
2	2 A. That's correct.
	3 Q. I have sent you a box of
3	4 documents, most of which we will use, but
4 Direction to Witness Not to Answer	5 I'm not sure of all of them. Do you have
5 Page Line	6 that in front of you, sir?
6 406 14	7 A. I do.
7 Request for Production of Documents	8 Q. Have you opened the box?
8 Page Line	9 A. I've opened the box.
9 NONE	10 Q. Okay. And do you have
10 Question Marked	11 everything in front of you so that we can
11 Page Line	12 go through things in
12 NONE	
13	13 A. I haven't removed the tape as
14	14 of yet though.
15	Q. Okay. Why don't you go ahead
16	16 and do that and we can get started?
17	17 A. Okay.
18	18
19	19 (Discussion was held off the record.)
20	20
21	21 BY MR. TISI:
22	22 Q. Tell me when you're ready,
23	23 sir.
24	24 A. Okay. Ready.
Page 7	Page 9
1 THE STENOGRAPHER: All parties	1 Q. Have you been hired by the
2 to this deposition are appearing	2 lawyers defending Johnson & Johnson and LLT
3 remotely and have agreed to the	3 to offer opinions relating to a May 24
4 witness being sworn in remotely.	4 study by NIH scientists called "Intimate
5 Due to the nature of the remote	5 Care Products and Incidence of
6 reporting, please pause briefly	6 Hormone-Related Cancers: A Quantitative
7 before speaking to ensure all	7 Bias Analysis"?
8 parties are heard completely.	8 A. Yes, I was retained to give
9 Counsel will be noted on the	9 an independent opinion of that of that
stenographic record.	10 paper.
11	11 Q. Okay. If I call it O'Brien
JOHN KORNAK, PhD, having	12 (2024) to make it easier, would that be
been duly sworn, was examined and	13 okay?
14 testified as follows:	14 A. That's fine, yes.
15	15 Q. All right. Do you have a
16 BY MR. TISI:	16 hard copy in front of you, sir?
17 Q. Would you please state your	17 A. Yes, I have my
18 name for the record, please?	18 Q. You have your copy and just
19 A. Yeah, John Kornak.	19 for the record, it's Exhibit No. 8 in the
20 Q. Dr. Kornak, are you a	20 box
21 biostatistician?	20 box 21 A. Okay.
21 biostatistician? 22 A. I am.	1
Q. Okay. We have placed before 24 you or sent you you're actually in	23 doesn't have any yours does not have any 24 markings on it, correct?
THE VALUE OF COME VALUE VALUE OF THE COME TO SEE	L //L DOSCKINGS ON IL COTTACT /

Page 10	Page 12
1 A. That's correct, there's no	1 I don't know that I would categorize it as
2 markings.	2 large, but the overall sample size was
3	3 large, but the number of cases was not as
4 (O'Brien (2024) Paper marked	4 large.
5 Kornak Exhibit 8 for	5 Q. Okay. But the study itself
6 identification.)	6 is a 50,000 person study sponsored by the
7	7 NIH, correct?
8 BY MR. TISI:	8 A. And I'm only pausing because
9 Q. Just to make it easier so you	9 I'm not sure whether NIH was the sponsor.
10 don't have to go back and forth between the	10 I have no reason to doubt that it was,
11 binder, your report is going to be Exhibit	11 but
12 No. 1, which I understand you brought with	Q. Now, using I'm sorry, and
13 you and the O'Brien (2024) is Exhibit	13 because we're on a Zoom, if I cut you off,
14 No. 8. Do you see that in your binder?	14 I don't do that intentionally and if you
15 A. Let me check. Yes, Exhibit	15 cut me off, I will also agree that you're
16 No. 1 looks like my report. And Exhibit 8	16 not doing it intentionally and we'll try to
17 looks like the paper.	17 work with each other.
18	18 A. That sounds good. I just
19 (Expert Report marked Kornak	19 wanted to check if you wanted me to search
Exhibit 1 for identification.)	20 through to make sure that I assume they
21	21 have it somewhere in a footnote.
22 BY MR. TISI:	Q. They do, and we'll get to
Q. Okay. All right. And I	23 that. So let's just see if we can move
24 understand, just for the record, that you	24 forward.
Page 11	Page 13
1 brought your report and O'Brien (2024) with	1 Now, using statistical
2 you, but they don't have any markings on	2 methods that we'll be discussing in this
3 them, correct?	3 deposition, including a quantitative bias
4 A. That's correct, no markings.	4 analysis, multiple imputation, and other
5 Q. And you didn't bring any	5 recall bias scenarios, this peer-reviewed
6 notes of any kind, correct?	6 study concluded that genital talc use was
7 A. No, no notes.8 Q. Do you have any notes of any	
X II IIO VOII have any notes of any	7 associated with ovarian cancer,
	8 particularly in women who used it
9 kind related to your review of this study	8 particularly in women who used it9 frequently and for longer durations,
9 kind related to your review of this study10 or generating this report?	8 particularly in women who used it 9 frequently and for longer durations, 10 correct?
 9 kind related to your review of this study 10 or generating this report? 11 A. No, I don't have any notes. 	 8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that
 9 kind related to your review of this study 10 or generating this report? 11 A. No, I don't have any notes. 12 Q. Okay. All right. Now, the 	8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would
 9 kind related to your review of this study 10 or generating this report? 11 A. No, I don't have any notes. 12 Q. Okay. All right. Now, the 13 O'Brien (2024), which is Exhibit No. 8, 	8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did
 9 kind related to your review of this study 10 or generating this report? 11 A. No, I don't have any notes. 12 Q. Okay. All right. Now, the 13 O'Brien (2024), which is Exhibit No. 8, 14 appeared in the peer review Journal of 	8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did 14 for recall bias a statistical method.
 9 kind related to your review of this study 10 or generating this report? 11 A. No, I don't have any notes. 12 Q. Okay. All right. Now, the 13 O'Brien (2024), which is Exhibit No. 8, 14 appeared in the peer review Journal of 15 Clinical Oncology, correct? 	8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did 14 for recall bias a statistical method. 15 Q. Okay.
9 kind related to your review of this study 10 or generating this report? 11 A. No, I don't have any notes. 12 Q. Okay. All right. Now, the 13 O'Brien (2024), which is Exhibit No. 8, 14 appeared in the peer review Journal of 15 Clinical Oncology, correct? 16 A. Yes.	8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did 14 for recall bias a statistical method. 15 Q. Okay. 16 A. And similarly for the
 9 kind related to your review of this study 10 or generating this report? 11 A. No, I don't have any notes. 12 Q. Okay. All right. Now, the 13 O'Brien (2024), which is Exhibit No. 8, 14 appeared in the peer review Journal of 15 Clinical Oncology, correct? 16 A. Yes. 17 Q. And it appeared less than two 	8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did 14 for recall bias a statistical method. 15 Q. Okay. 16 A. And similarly for the 17 qualitative bias analysis too. And so can
9 kind related to your review of this study 10 or generating this report? 11 A. No, I don't have any notes. 12 Q. Okay. All right. Now, the 13 O'Brien (2024), which is Exhibit No. 8, 14 appeared in the peer review Journal of 15 Clinical Oncology, correct? 16 A. Yes. 17 Q. And it appeared less than two 18 months ago on May 15, 2024?	8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did 14 for recall bias a statistical method. 15 Q. Okay. 16 A. And similarly for the 17 qualitative bias analysis too. And so can 18 you you mean what they said or what
 9 kind related to your review of this study 10 or generating this report? 11 A. No, I don't have any notes. 12 Q. Okay. All right. Now, the 13 O'Brien (2024), which is Exhibit No. 8, 14 appeared in the peer review Journal of 15 Clinical Oncology, correct? 16 A. Yes. 17 Q. And it appeared less than two 18 months ago on May 15, 2024? 19 A. It was published on May 15, 	8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did 14 for recall bias a statistical method. 15 Q. Okay. 16 A. And similarly for the 17 qualitative bias analysis too. And so can 18 you you mean what they said or what 19 Q. Yes, I'm stating what they
9 kind related to your review of this study 10 or generating this report? 11 A. No, I don't have any notes. 12 Q. Okay. All right. Now, the 13 O'Brien (2024), which is Exhibit No. 8, 14 appeared in the peer review Journal of 15 Clinical Oncology, correct? 16 A. Yes. 17 Q. And it appeared less than two 18 months ago on May 15, 2024? 19 A. It was published on May 15, 20 2024, yes.	8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did 14 for recall bias a statistical method. 15 Q. Okay. 16 A. And similarly for the 17 qualitative bias analysis too. And so can 18 you you mean what they said or what 19 Q. Yes, I'm stating what they 20 said. That's what they concluded. I
9 kind related to your review of this study 10 or generating this report? 11 A. No, I don't have any notes. 12 Q. Okay. All right. Now, the 13 O'Brien (2024), which is Exhibit No. 8, 14 appeared in the peer review Journal of 15 Clinical Oncology, correct? 16 A. Yes. 17 Q. And it appeared less than two 18 months ago on May 15, 2024? 19 A. It was published on May 15, 20 2024, yes. 21 Q. And O'Brien (2024) paper you	8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did 14 for recall bias a statistical method. 15 Q. Okay. 16 A. And similarly for the 17 qualitative bias analysis too. And so can 18 you you mean what they said or what 19 Q. Yes, I'm stating what they 20 said. That's what they concluded. I 21 understand you have differences with their
9 kind related to your review of this study 10 or generating this report? 11 A. No, I don't have any notes. 12 Q. Okay. All right. Now, the 13 O'Brien (2024), which is Exhibit No. 8, 14 appeared in the peer review Journal of 15 Clinical Oncology, correct? 16 A. Yes. 17 Q. And it appeared less than two 18 months ago on May 15, 2024? 19 A. It was published on May 15, 20 2024, yes. 21 Q. And O'Brien (2024) paper you 22 stated for a large NIH cohort study called	8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did 14 for recall bias a statistical method. 15 Q. Okay. 16 A. And similarly for the 17 qualitative bias analysis too. And so can 18 you you mean what they said or what 19 Q. Yes, I'm stating what they 20 said. That's what they concluded. I 21 understand you have differences with their 22 conclusion, but their conclusion was, and
9 kind related to your review of this study 10 or generating this report? 11 A. No, I don't have any notes. 12 Q. Okay. All right. Now, the 13 O'Brien (2024), which is Exhibit No. 8, 14 appeared in the peer review Journal of 15 Clinical Oncology, correct? 16 A. Yes. 17 Q. And it appeared less than two 18 months ago on May 15, 2024? 19 A. It was published on May 15, 20 2024, yes. 21 Q. And O'Brien (2024) paper you	8 particularly in women who used it 9 frequently and for longer durations, 10 correct? 11 A. I don't fully agree with that 12 statement on a couple of levels. I would 13 hesitate to call recall what they did 14 for recall bias a statistical method. 15 Q. Okay. 16 A. And similarly for the 17 qualitative bias analysis too. And so can 18 you you mean what they said or what 19 Q. Yes, I'm stating what they 20 said. That's what they concluded. I 21 understand you have differences with their

	Page 14		Page 16
1	Generated, Genital talc use was positively	1	BY MR. TISI:
	associated with ovarian cancer for a range	2	Q. Correct. Okay. Now, from
	of plausible bias-correction scenarios,	3	what I can tell, you met with J&J's lawyers
	with higher rates seen for frequent and	4	to discuss preparing a litigation report
	long-term users."		addressing the O'Brien (2024) study on
6	That's what the study said,	6	about May 20, 2024, five days after the
7	correct?	7	study was published, correct?
8	A. Well, that's what they the	8	A. I don't recall meeting with
9	authors say in these particular couple of	9	J&J lawyers on that date. I may have.
10	sentences, but they had also use words such	10	That's around the date that I was first
11	as support a positive association in the	11	contacted about the case.
12	conclusion in the abstract. And the	12	Q. And the goal was to generate
	relevance talks about a measure confounding		and submit the litigation report that
	could still be present. So that kind of	14	ultimately became Exhibit No. 1, correct?
	qualifies the statement a little bit, I	15	A. That's not what I understood
	think.		the goal to be. I understood it to be that
17	Q. And they also concluded that		I was to provide an independent review of
1	the association existed even after		the O'Brien (2024) paper from my
	adjusting for recall bias using various		biostatistical perspective.
	scenarios that they discussed in the paper,	20	Q. It's not entirely
1	correct?	21	
22	A. I don't know if that's the		\$50,000 to generate that report, correct?
	precise wording. I remember something that	23	MS. LEHMAN: Object to form.
24	they said like that, but I don't agree with	24	THE WITNESS: It's correct
1	Page 15	1	Page 17 that I was paid \$50,000 to generate
	that.	1	that I was paid \$50,000 to generate
2	that. Q. Okay. I understand you don't	2	that I was paid \$50,000 to generate that report, but I approached it
2 3	that. Q. Okay. I understand you don't agree with it. We're just trying to get	2 3	that I was paid \$50,000 to generate that report, but I approached it from an independent perspective.
2 3 4	that. Q. Okay. I understand you don't agree with it. We're just trying to get what the paper said and then we'll talk	2 3 4	that I was paid \$50,000 to generate that report, but I approached it from an independent perspective. BY MR. TISI:
2 3 4 5	that. Q. Okay. I understand you don't agree with it. We're just trying to get what the paper said and then we'll talk about your criticisms, okay?	2 3 4 5	that I was paid \$50,000 to generate that report, but I approached it from an independent perspective. BY MR. TISI: Q. Well, I wasn't in the room to
2 3 4 5 6	that. Q. Okay. I understand you don't agree with it. We're just trying to get what the paper said and then we'll talk about your criticisms, okay? A. Okay. Do you want to	2 3 4 5 6	that I was paid \$50,000 to generate that report, but I approached it from an independent perspective. BY MR. TISI: Q. Well, I wasn't in the room to talk to you about my perspective, was I?
2 3 4 5 6 7	that. Q. Okay. I understand you don't agree with it. We're just trying to get what the paper said and then we'll talk about your criticisms, okay? A. Okay. Do you want to whereabouts do you want to read a	2 3 4 5 6 7	that I was paid \$50,000 to generate that report, but I approached it from an independent perspective. BY MR. TISI: Q. Well, I wasn't in the room to talk to you about my perspective, was I? A. You are correct that you were
2 3 4 5 6 7 8	that. Q. Okay. I understand you don't agree with it. We're just trying to get what the paper said and then we'll talk about your criticisms, okay? A. Okay. Do you want to whereabouts do you want to read a precise statement that they said or	2 3 4 5 6 7 8	that I was paid \$50,000 to generate that report, but I approached it from an independent perspective. BY MR. TISI: Q. Well, I wasn't in the room to talk to you about my perspective, was I? A. You are correct that you were not in the room to talk about your
2 3 4 5 6 7 8 9	that. Q. Okay. I understand you don't agree with it. We're just trying to get what the paper said and then we'll talk about your criticisms, okay? A. Okay. Do you want to whereabouts do you want to read a precise statement that they said or Q. Actually, we'll get to that.	2 3 4 5 6 7 8 9	that I was paid \$50,000 to generate that report, but I approached it from an independent perspective. BY MR. TISI: Q. Well, I wasn't in the room to talk to you about my perspective, was I? A. You are correct that you were not in the room to talk about your perspective, but I was not I reviewed
2 3 4 5 6 7 8 9 10	that. Q. Okay. I understand you don't agree with it. We're just trying to get what the paper said and then we'll talk about your criticisms, okay? A. Okay. Do you want towhereabouts do you want to read a precise statement that they said orQ. Actually, we'll get to that. I'm not going to I'm not going to if	2 3 4 5 6 7 8 9	that I was paid \$50,000 to generate that report, but I approached it from an independent perspective. BY MR. TISI: Q. Well, I wasn't in the room to talk to you about my perspective, was I? A. You are correct that you were not in the room to talk about your perspective, but I was not I reviewed the paper itself. I took the paper, I
2 3 4 5 6 7 8 9 10	that. Q. Okay. I understand you don't agree with it. We're just trying to get what the paper said and then we'll talk about your criticisms, okay? A. Okay. Do you want to whereabouts do you want to read a precise statement that they said or Q. Actually, we'll get to that. I'm not going to I'm not going to if you don't understand that to be the	2 3 4 5 6 7 8 9 10 11	that I was paid \$50,000 to generate that report, but I approached it from an independent perspective. BY MR. TISI: Q. Well, I wasn't in the room to talk to you about my perspective, was I? A. You are correct that you were not in the room to talk about your perspective, but I was not I reviewed the paper itself. I took the paper, I looked at it, I read it. It's my
2 3 4 5 6 7 8 9 10 11 12	that. Q. Okay. I understand you don't agree with it. We're just trying to get what the paper said and then we'll talk about your criticisms, okay? A. Okay. Do you want to whereabouts do you want to read a precise statement that they said or Q. Actually, we'll get to that. I'm not going to I'm not going to if you don't understand that to be the conclusion of the authors, then I will move	2 3 4 5 6 7 8 9 10 11	that I was paid \$50,000 to generate that report, but I approached it from an independent perspective. BY MR. TISI: Q. Well, I wasn't in the room to talk to you about my perspective, was I? A. You are correct that you were not in the room to talk about your perspective, but I was not I reviewed the paper itself. I took the paper, I looked at it, I read it. It's my perspective.
2 3 4 5 6 7 8 9 10 11 12 13	that. Q. Okay. I understand you don't agree with it. We're just trying to get what the paper said and then we'll talk about your criticisms, okay? A. Okay. Do you want to whereabouts do you want to read a precise statement that they said or Q. Actually, we'll get to that. I'm not going to I'm not going to if you don't understand that to be the conclusion of the authors, then I will move on. But do you understand that the	2 3 4 5 6 7 8 9 10 11 12 13	that I was paid \$50,000 to generate that report, but I approached it from an independent perspective. BY MR. TISI: Q. Well, I wasn't in the room to talk to you about my perspective, was I? A. You are correct that you were not in the room to talk about your perspective, but I was not I reviewed the paper itself. I took the paper, I looked at it, I read it. It's my perspective. Q. Okay. We'll talk about that
2 3 4 5 6 7 8 9 10 11 12 13 14	that. Q. Okay. I understand you don't agree with it. We're just trying to get what the paper said and then we'll talk about your criticisms, okay? A. Okay. Do you want to whereabouts do you want to read a precise statement that they said or Q. Actually, we'll get to that. I'm not going to I'm not going to if you don't understand that to be the conclusion of the authors, then I will move	2 3 4 5 6 7 8 9 10 11 12 13	that I was paid \$50,000 to generate that report, but I approached it from an independent perspective. BY MR. TISI: Q. Well, I wasn't in the room to talk to you about my perspective, was I? A. You are correct that you were not in the room to talk about your perspective, but I was not I reviewed the paper itself. I took the paper, I looked at it, I read it. It's my perspective.
2 3 4 5 6 7 8 9 10 11 12 13 14 15	that. Q. Okay. I understand you don't agree with it. We're just trying to get what the paper said and then we'll talk about your criticisms, okay? A. Okay. Do you want to whereabouts do you want to read a precise statement that they said or Q. Actually, we'll get to that. I'm not going to I'm not going to if you don't understand that to be the conclusion of the authors, then I will move on. But do you understand that the authors' general proposition was there was	2 3 4 5 6 7 8 9 10 11 12 13 14 15	that I was paid \$50,000 to generate that report, but I approached it from an independent perspective. BY MR. TISI: Q. Well, I wasn't in the room to talk to you about my perspective, was I? A. You are correct that you were not in the room to talk about your perspective, but I was not I reviewed the paper itself. I took the paper, I looked at it, I read it. It's my perspective. Q. Okay. We'll talk about that in a moment, if we could. But it's fair to say that you learned of this study through
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1	Page 18	1	Page 20
	through Cornerstone Research.	1	identification.)
2	Q. We'll talk about Cornerstone,	$\begin{vmatrix} 2 \\ 3 \end{vmatrix}$	DV MD TICL
3	but the company itself, just to be clear,	-	BY MR. TISI:
4	the company never called you independently	4	Q. Okay. On May 20, 2024, you
5	and said, you know, we need to understand		reviewed the O'Brien (2024) quantitative
6	this study, its strengths and its	6	bias paper and meeting with Cornerstone and
7	weaknesses in our normal course of	7	legal team.
8	business, did they?	8	Do you see that?
9	MS. LEHMAN: Object to the	9	A. Yes.
10	form.	10	Q. Does that refresh your
11	THE WITNESS: J&J didn't		recollection the first day you ever spoke
12	contact me.		to anyone about this paper, you spoke with
13	BY MR. TISI:	13	Cornerstone and the lawyers for J&J?
14	Q. It was the lawyer?		A. Okay. So I certainly accept
15	MS. LEHMAN: Object to form.		what I have here in the statement. None of
	BY MR. TISI:		it refreshes my memory exactly, but I remember I had a call with Cornerstone and
17	Q. Through Cornerstone, it was		
18	the lawyers? A. Cornerstone Research		then a meeting was set up to also meet with
			the legal team and that would have been
20			later in the day given that it was on the
21	Q. Right, but they were	21	7
	operating at the direction of the lawyers, true?	22	Q. All right. But my point is
			that you said that you were going to do an
24	A. I don't know what their exact	24	independent analysis of this paper, but at
	Page 19	1	Page 21
	relationship is with the lawyers and J&J		the time that you first got this study, you
$\begin{vmatrix} 2 \\ 2 \end{vmatrix}$	and I didn't ask.		met with Cornerstone and J&J's lawyers and
3	Q. Okay. We're going to be	3	nobody else, true?
4	talking about Cornerstone in a moment, but	5	MS. LEHMAN: Object to form.
5	your initial meeting with them on your	6	THE WITNESS: Can you repeat
	billing statement states you met with J&J's		that question? It seemed a
	lawyers and Cornerstone on the first day	7	little BY MR. TISI:
	where you were retained to look at this		
	study. Does that refresh your recollection?	9	Q. Yes. You got a copy of the
			paper on or about May 20, 2024, correct?
11	A. I mean, if I I have no	11 12	A. I believe that to be true.Q. And on the same day, you
1	reason to doubt it. I would like, you		• • •
	know, to	13	spoke to J&J's lawyers, true? A. Yes.
14 15	Q. Well, let's A take a look.	15	
16			Q. And there was nobody else
1			there, nobody from, for example, my side of
	order, but let's take a look at it. If you would look at your statement. Exhibit No. 3	18	the table that would talk to you about our
l	would look at your statement, Exhibit No. 3	18	perspective on the 2024 paper, correct? MS. LEHMAN: Objection. Asked
19	in your binder, which is your billing statement.	20	and answered.
20	Statement.	20 21	THE WITNESS: There was
1	Λ V_{AC}		
21	A. Yes.		
21 22		22	certainly no one you were not
21	A. Yes. (Billing Statement marked Kornak Exhibit 3 for		

Page 22		Page 24
1 BY MR. TISI:	1	the paper.
2 Q. Right. And		BY MR. TISI:
3 A. I don't know to what extent	3	Q. And you knew that that report
4 I'm allowed to talk about what was in the	4	would then be used in litigation, correct?
5 meeting since it was it would be	5	A. I assumed it was for the
6 privileged, but really it was more about my	_	case, yes.
7 CV.	7	Q. And you in fact did generate
8 Q. Okay. Now, you also all	8	a report and it was filed on May 28, eight
9 right. We'll talk about that in a moment.	1	days later, correct?
Now, you understood that now	10	A. Correct.
11 and you understood at that time that the	11	Q. All right. And that report
12 purpose of that meeting was get to you to	12	is marked in your binder as Exhibit 1,
13 write a litigation report in this	1	correct?
14 litigation relating to the O'Brien (2024)	14	A. Yes.
15 study, correct?	15	Q. Okay. And if you go to
16 A. Yeah, I was asked to	16	page 2 to 4 of your report, page 2 to 4 of
17 independently review the O'Brien (2024)	17	your report, you summarize and you say that
18 paper.	18	even though the authors find a
19 Q. And, in fact, you produced a	19	statistically significant association
20 report for J&J's lawyers supporting the	20	between genital talc use and ovarian
21 position that the paper is flawed and	21	cancer, even considering potential biases,
22 unreliable on May 29, 2024, correct, less	22	O'Brien (2024) was flawed and unreliable,
23 than ten days after meeting with the	23	correct?
24 lawyers and Cornerstone, correct?	24	A. Sorry, I'm just trying to
Page 23		Page 25
1 A. I would have to look at the		find the precise paragraph you're reading
2 date of my report. I don't I don't have		from on page 2 to 4?
3 any reason to doubt that was the date it	3	Q. On I'm sorry.
4 was produced, but	4	A. Is it paragraph 10?
5 Q. Well, if you take a look		
	5	Q. Yes. Correct.
6 if you take a look at your litigation	6	A. I'm sorry, what's the
6 if you take a look at your litigation 7 report, Exhibit 1, on the front page, it	6 7	A. I'm sorry, what's the statement from paragraph 10?
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1	Q. And you reached that opinion	1	Page 28 question. Between the time that you first
2	The state of the s		met with Jessica Davidson on the 20th of
$\frac{2}{3}$	A. Yes.		May and the time your report was filed on
4	Q. Okay. Now, let's go to your		the 28th or finalized on the 28th, how many
5	billing statement, Exhibit No. 3 and it		times did you meet with Ms. Davidson either
6		6	•
7	• •	7	A. I don't recall that I even
8	Do you see that?	Q Q	met with her again since that initial
9	A. Well, yeah, I would agree	9	meeting until after my report was filed.
1	that's when I started reviewing it.	10	Q. Okay. And then after
11	Q. Okay. All right. Well, you	11	A. I'm not saying that's for
1	reviewed it, did you read the whole thing		certain, I just don't recall.
	on May 20, 2024?	13	Q. Okay.
14	A. I mean, I don't know how you	14	A. I don't know.
1	would exactly define it. Did I read every	15	Q. Okay. And we'll talk about
1	word in there, I don't think so. I think,		after your report in a moment.
	you know, the way I approach reading a	17	Now, we've talked several
1	paper to review it is not to start on		times about Cornerstone. Could you tell me
1	page 1 and read through every word all the		what Cornerstone is?
	way to the end. I often jump around and	20	A. I don't know exactly.
	then I often fill in the pieces. So I	21	They're some kind of company that supports
1	can't say whether I read every piece of	22	
1	that paper on the first day or not.	23	me in an administrative support role.
24	Q. Well, you did meet with the	24	Q. Well, actually, in your
	Page 27		Page 29
1	legal team on the first day, correct?	1	report in your CV, which I have had
2	MS. LEHMAN: Objection. Asked	2	marked as I'm a little out of order, but
3	and answered.	3	in your CV, which I've had marked as
4	THE WITNESS: I did meet with	4	Exhibit No. 2, you actually list
5	the legal team on that day.	5	Cornerstone as somebody with whom you work.
6	BY MR. TISI:	6	Am I correct about that?
7	Q. Okay. Who did you who on	7	A. Yes, I worked with them
8	the legal team did you meet?	8	previously.
9	A. There was Jessica Davidson	9	
	and another lady that I don't recall the	10	(Curriculum Vitae marked
	name of, but I have not seen on matters	11	Kornak Exhibit 2 for
12	since, so.	12	identification.)
1			
13	Q. Okay. Have you met with	13	
13 14	Jessica Davidson after this initial meeting	14	BY MR. TISI:
13 14 15	Jessica Davidson after this initial meeting on May 20, 2024?	14 15	Q. Okay. And are they a company
13 14 15 16	Jessica Davidson after this initial meeting on May 20, 2024? A. Yes, I have.	14 15 16	Q. Okay. And are they a company that finds experts for companies who are
13 14 15 16 17	Jessica Davidson after this initial meeting on May 20, 2024? A. Yes, I have. Q. How many times?	14 15 16 17	Q. Okay. And are they a company that finds experts for companies who are looking for experts?
13 14 15 16 17 18	Jessica Davidson after this initial meeting on May 20, 2024? A. Yes, I have. Q. How many times? A. I would estimate somewhere	14 15 16 17 18	Q. Okay. And are they a company that finds experts for companies who are looking for experts? A. I don't know that that's what
13 14 15 16 17 18 19	Jessica Davidson after this initial meeting on May 20, 2024? A. Yes, I have. Q. How many times? A. I would estimate somewhere between five and ten times.	14 15 16 17 18 19	Q. Okay. And are they a company that finds experts for companies who are looking for experts? A. I don't know that that's what the complete the company completely is.
13 14 15 16 17 18 19 20	Jessica Davidson after this initial meeting on May 20, 2024? A. Yes, I have. Q. How many times? A. I would estimate somewhere between five and ten times. Q. Okay. Those are not	14 15 16 17 18 19 20	Q. Okay. And are they a company that finds experts for companies who are looking for experts? A. I don't know that that's what the complete the company completely is. Like I say, they also provided me with
13 14 15 16 17 18 19 20 21	Jessica Davidson after this initial meeting on May 20, 2024? A. Yes, I have. Q. How many times? A. I would estimate somewhere between five and ten times. Q. Okay. Those are not reflected on your billing statement?	14 15 16 17 18 19 20 21	Q. Okay. And are they a company that finds experts for companies who are looking for experts? A. I don't know that that's what the complete the company completely is. Like I say, they also provided me with administrative support. I don't know
13 14 15 16 17 18 19 20 21 22	Jessica Davidson after this initial meeting on May 20, 2024? A. Yes, I have. Q. How many times? A. I would estimate somewhere between five and ten times. Q. Okay. Those are not reflected on your billing statement? A. Sorry, can I just between	14 15 16 17 18 19 20 21 22	Q. Okay. And are they a company that finds experts for companies who are looking for experts? A. I don't know that that's what the complete the company completely is. Like I say, they also provided me with administrative support. I don't know completely what the company does.
13 14 15 16 17 18 19 20 21 22	Jessica Davidson after this initial meeting on May 20, 2024? A. Yes, I have. Q. How many times? A. I would estimate somewhere between five and ten times. Q. Okay. Those are not reflected on your billing statement?	14 15 16 17 18 19 20 21	Q. Okay. And are they a company that finds experts for companies who are looking for experts? A. I don't know that that's what the complete the company completely is. Like I say, they also provided me with administrative support. I don't know

1	D 20		P 22
1	Page 30 I me, so I would go along with that, but as	1	Page 32 reveal that information.
1	2 far as I know, I haven't researched them to	2	THE WITNESS: Yeah, I don't
	3 know beyond that.	3	believe this part of it is
2		4	privileged in the sense that
5		5	they that Cornerstone did
1	•	6	contact me about that particular
		7	case.
8		· '	BY MR. TISI:
9	,	9	Q. And it said that you were
10	•	l	identified as an expert witness, correct?
	I I mean, they retain me they, through the	11	A. I would say a potential
1	2 lawyers, through them retained me to work	l	expert witness, but
	3 on this case. I don't work for them.	13	Q. Did you generate a report?
14		14	A. I'm kind of nervous now,
	5 you can look on your CV, which is Exhibit	15	because I don't know if that's sort of
1	5 No. 2	16	getting into what is privileged information
17		l	or not.
18		18	Q. Well, I'm just asking you,
	you've worked with Cornerstone Research	19	did you generate a report?
) from 2022 to 2023, that would be through	20	MS. LEHMAN: So let me just
1	2024, correct?	21	jump in here, John. If you were
22	•	22	disclosed as a witness, then you
	3 working on with Cornerstone Research, 2022	23	can talk about it. If you were
1	to 2023, I'm no longer involved in. So,	24	if you were purely a consulting
	Page 31		Page 33
1	you know, my CV, as you can tell, is very,	1	witness so that you were not
1	2 very long and I don't necessarily I am	2	disclosed, then information about
1	, ,		
1 -	3 not able to keep every single thing up to	$\frac{2}{3}$	•
	3 not able to keep every single thing up to 4 date, but, yes, now, I would update it and	l	what you did would be privileged.
4	date, but, yes, now, I would update it and	3	what you did would be privileged. THE WITNESS: Yes, so I was
5		3 4 5	what you did would be privileged.
5	date, but, yes, now, I would update it and say I have also done work with Cornerstone in 2024.	3 4 5	what you did would be privileged. THE WITNESS: Yes, so I was not disclosed, so. BY MR. TISI:
5	date, but, yes, now, I would update it and say I have also done work with Cornerstone in 2024. Q. And we'll go through this	3 4 5 6 7	what you did would be privileged. THE WITNESS: Yes, so I was not disclosed, so. BY MR. TISI: Q. Okay. We'll get back to that
5 6 7 8	date, but, yes, now, I would update it and say I have also done work with Cornerstone in 2024. Q. And we'll go through this and, but you've worked with I'm sorry,	3 4 5 6 7	what you did would be privileged. THE WITNESS: Yes, so I was not disclosed, so. BY MR. TISI: Q. Okay. We'll get back to that in a moment, but in terms of Cornerstone,
6	date, but, yes, now, I would update it and say I have also done work with Cornerstone in 2024. Q. And we'll go through this	3 4 5 6 7 8 9	what you did would be privileged. THE WITNESS: Yes, so I was not disclosed, so. BY MR. TISI: Q. Okay. We'll get back to that in a moment, but in terms of Cornerstone, okay, you have been working with a company
5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	date, but, yes, now, I would update it and say I have also done work with Cornerstone in 2024. Q. And we'll go through this and, but you've worked with I'm sorry, is somebody saying something? I'm sorry. You have worked with Cornerstone in another	3 4 5 6 7 8 9	what you did would be privileged. THE WITNESS: Yes, so I was not disclosed, so. BY MR. TISI: Q. Okay. We'll get back to that in a moment, but in terms of Cornerstone, okay, you have been working with a company that finds experts for litigation for
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22 55 66 77 88 99 10 11 12 13 14	date, but, yes, now, I would update it and say I have also done work with Cornerstone in 2024. Q. And we'll go through this and, but you've worked with I'm sorry, is somebody saying something? I'm sorry. You have worked with Cornerstone in another case they found you as an expert for another company beginning in 2022, correct? MS. LEHMAN: And let me just I just want to caution John, because this is	3 4 5 6 7 8 9 10 11 12 13 14 15	what you did would be privileged. THE WITNESS: Yes, so I was not disclosed, so. BY MR. TISI: Q. Okay. We'll get back to that in a moment, but in terms of Cornerstone, okay, you have been working with a company that finds experts for litigation forsince at least 2022, correct? A. You say working with? Q. Yes. A. I don't know if working with
10 11 12 13 14 15	date, but, yes, now, I would update it and say I have also done work with Cornerstone in 2024. Q. And we'll go through this and, but you've worked with I'm sorry, is somebody saying something? I'm sorry. You have worked with Cornerstone in another case they found you as an expert for another company beginning in 2022, correct? MS. LEHMAN: And let me just I just want to caution John, because this is not my client, but to the extent he	3 4 5 6 7 8 9 10 11 12 13 14 15	what you did would be privileged. THE WITNESS: Yes, so I was not disclosed, so. BY MR. TISI: Q. Okay. We'll get back to that in a moment, but in terms of Cornerstone, okay, you have been working with a company that finds experts for litigation for since at least 2022, correct? A. You say working with? Q. Yes. A. I don't know if working with is right. Again, I can't talk about the previous case, but in this case, they're
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10 10 11 12 13 14 15 16 17 18	date, but, yes, now, I would update it and say I have also done work with Cornerstone in 2024. Q. And we'll go through this and, but you've worked with I'm sorry, is somebody saying something? I'm sorry. You have worked with Cornerstone in another case they found you as an expert for another company beginning in 2022, correct? MS. LEHMAN: And let me just I just want to caution John, because this is not my client, but to the extent he was a consulting litigation expert who was not disclosed, I would just tell him to be cautious about not	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	what you did would be privileged. THE WITNESS: Yes, so I was not disclosed, so. BY MR. TISI: Q. Okay. We'll get back to that in a moment, but in terms of Cornerstone, okay, you have been working with a company that finds experts for litigation for since at least 2022, correct? A. You say working with? Q. Yes. A. I don't know if working with is right. Again, I can't talk about the previous case, but in this case, they're kind of made available to me to provide administrative support. So I don't know by
10 10 11 11 12 13 14 15 16 17 18 19	date, but, yes, now, I would update it and say I have also done work with Cornerstone in 2024. Q. And we'll go through this and, but you've worked with I'm sorry, is somebody saying something? I'm sorry. You have worked with Cornerstone in another case they found you as an expert for another company beginning in 2022, correct? MS. LEHMAN: And let me just I just want to caution John, because this is not my client, but to the extent he was a consulting litigation expert who was not disclosed, I would just tell him to be cautious about not revealing privileged information.	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	what you did would be privileged. THE WITNESS: Yes, so I was not disclosed, so. BY MR. TISI: Q. Okay. We'll get back to that in a moment, but in terms of Cornerstone, okay, you have been working with a company that finds experts for litigation for since at least 2022, correct? A. You say working with? Q. Yes. A. I don't know if working with is right. Again, I can't talk about the previous case, but in this case, they're kind of made available to me to provide administrative support. So I don't know by "working with" what you would mean.
10 10 11 12 13 14 15 16 17 18 19 20	date, but, yes, now, I would update it and say I have also done work with Cornerstone in 2024. Q. And we'll go through this and, but you've worked with I'm sorry, is somebody saying something? I'm sorry. You have worked with Cornerstone in another case they found you as an expert for another company beginning in 2022, correct? MS. LEHMAN: And let me just I just want to caution John, because this is not my client, but to the extent he was a consulting litigation expert who was not disclosed, I would just tell him to be cautious about not revealing privileged information. And John would know the answer to	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	what you did would be privileged. THE WITNESS: Yes, so I was not disclosed, so. BY MR. TISI: Q. Okay. We'll get back to that in a moment, but in terms of Cornerstone, okay, you have been working with a company that finds experts for litigation forsince at least 2022, correct? A. You say working with? Q. Yes. A. I don't know if working with is right. Again, I can't talk about the previous case, but in this case, they're kind of made available to me to provide administrative support. So I don't know by "working with" what you would mean. Q. How did J&J find you in this
10 11 12 13 14 15 16 17 18 19 20 21	date, but, yes, now, I would update it and say I have also done work with Cornerstone in 2024. Q. And we'll go through this and, but you've worked with I'm sorry, is somebody saying something? I'm sorry. You have worked with Cornerstone in another case they found you as an expert for another company beginning in 2022, correct? MS. LEHMAN: And let me just I just want to caution John, because this is not my client, but to the extent he was a consulting litigation expert who was not disclosed, I would just tell him to be cautious about not revealing privileged information. And John would know the answer to that, not me. I'm just putting	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	what you did would be privileged. THE WITNESS: Yes, so I was not disclosed, so. BY MR. TISI: Q. Okay. We'll get back to that in a moment, but in terms of Cornerstone, okay, you have been working with a company that finds experts for litigation forsince at least 2022, correct? A. You say working with? Q. Yes. A. I don't know if working with is right. Again, I can't talk about the previous case, but in this case, they're kind of made available to me to provide administrative support. So I don't know by "working with" what you would mean. Q. How did J&J find you in this case?

		_	
	Page 34		Page 36
	name in with Cornerstone and if Cornerstone		don't know what their mechanism is. I
	has a client that's looking for litigation		don't know what their relationship is with
	support and your CV matches, they connect		their clients. I'm not clear on that.
	you, right?	4	Q. Well, you've actually worked
5	A. That's not totally correct.	l .	with law firms going back many years, true?
	I didn't put my name in with Cornerstone.	6	A. Yes.
7	Q. How does Cornerstone know	7	Q. Okay. So Cornerstone
	you?	8	Research is kind of an extension of what
9	A. I don't know for sure, but	9	you were doing all along, true?
	I'm a well-known professor of biostatistics	10	MS. LEHMAN: Object to form.
	at a leading medical institution. I'm on	11	THE WITNESS: I find that
	the university website as a professor and	12	question, like, completely
	you see my CV, so they can look me up and	13	confusing.
	they can contact me and then people have		BY MR. TISI:
	many people have done that for various	15	Q. Okay. Well, let's talk about
1	fields.	1	it then. Okay. If we can go back to the
17	Q. Well, and they've done it at		prior page on your CV, you were working as
	least twice, they found you in the previous		a statistical consultant for law firms
	case and they found you in this case,	19	since at least 2015, correct, page 13 of
20	right? True?	20	77?
21	A. I mean, they found me in the	21	A. Yes.
22	first case and then whether they found me	22	Q. You worked with Goodman
23	or they had my name on record, that's	23	Neuman and Hamilton LLP as an expert
24	another question.	24	witness/statistical consultant, correct?
_		_	
	Page 35		Page 37
1	Page 35 Q. Right. So you basically	1	Page 37 A. I did that, I took a case
2	Q. Right. So you basically they basically had an ability to, you were	_	
2 3	Q. Right. So you basically they basically had an ability to, you were on record with Cornerstone, they connected	_	A. I did that, I took a case
2 3	Q. Right. So you basically they basically had an ability to, you were	2	A. I did that, I took a case that, yeah, they asked me to be a witness
2 3 4 5	Q. Right. So you basically they basically had an ability to, you were on record with Cornerstone, they connected with the first defendant, which you worked with as a consultant, and you also were	2 3	A. I did that, I took a case that, yeah, they asked me to be a witness on.
2 3 4 5	Q. Right. So you basically they basically had an ability to, you were on record with Cornerstone, they connected with the first defendant, which you worked	2 3 4	A. I did that, I took a case that, yeah, they asked me to be a witness on. Q. Well, who asked you? Was it
2 3 4 5 6	Q. Right. So you basically they basically had an ability to, you were on record with Cornerstone, they connected with the first defendant, which you worked with as a consultant, and you also were	2 3 4 5	A. I did that, I took a case that, yeah, they asked me to be a witness on. Q. Well, who asked you? Was it Cornerstone or was it the law firm?
2 3 4 5 6 7	Q. Right. So you basically they basically had an ability to, you were on record with Cornerstone, they connected with the first defendant, which you worked with as a consultant, and you also were recalled by them to work with Johnson &	2 3 4 5 6 7	A. I did that, I took a case that, yeah, they asked me to be a witness on. Q. Well, who asked you? Was it Cornerstone or was it the law firm? A. It was the law firm.
2 3 4 5 6 7	Q. Right. So you basically they basically had an ability to, you were on record with Cornerstone, they connected with the first defendant, which you worked with as a consultant, and you also were recalled by them to work with Johnson & Johnson and their lawyers in this case,	2 3 4 5 6 7 8	A. I did that, I took a case that, yeah, they asked me to be a witness on. Q. Well, who asked you? Was it Cornerstone or was it the law firm? A. It was the law firm. Q. Okay. Now, the next case you
2 3 4 5 6 7 8	Q. Right. So you basically they basically had an ability to, you were on record with Cornerstone, they connected with the first defendant, which you worked with as a consultant, and you also were recalled by them to work with Johnson & Johnson and their lawyers in this case, true?	2 3 4 5 6 7 8 9	A. I did that, I took a case that, yeah, they asked me to be a witness on. Q. Well, who asked you? Was it Cornerstone or was it the law firm? A. It was the law firm. Q. Okay. Now, the next case you were involved with was a law firm of Kelley
2 3 4 5 6 7 8 9 10	Q. Right. So you basically they basically had an ability to, you were on record with Cornerstone, they connected with the first defendant, which you worked with as a consultant, and you also were recalled by them to work with Johnson & Johnson and their lawyers in this case, true? MS. LEHMAN: Object to form.	2 3 4 5 6 7 8 9 10	A. I did that, I took a case that, yeah, they asked me to be a witness on. Q. Well, who asked you? Was it Cornerstone or was it the law firm? A. It was the law firm. Q. Okay. Now, the next case you were involved with was a law firm of Kelley Drye & Warren LLP as an expert
2 3 4 5 6 7 8 9 10 11 12	Q. Right. So you basically they basically had an ability to, you were on record with Cornerstone, they connected with the first defendant, which you worked with as a consultant, and you also were recalled by them to work with Johnson & Johnson and their lawyers in this case, true? MS. LEHMAN: Object to form. Asked and answered. THE WITNESS: Recalled, I would consider recalling someone to	2 3 4 5 6 7 8 9 10	A. I did that, I took a case that, yeah, they asked me to be a witness on. Q. Well, who asked you? Was it Cornerstone or was it the law firm? A. It was the law firm. Q. Okay. Now, the next case you were involved with was a law firm of Kelley Drye & Warren LLP as an expert witness/statistical consultant in 2015,
2 3 4 5 6 7 8 9 10	Q. Right. So you basically they basically had an ability to, you were on record with Cornerstone, they connected with the first defendant, which you worked with as a consultant, and you also were recalled by them to work with Johnson & Johnson and their lawyers in this case, true? MS. LEHMAN: Object to form. Asked and answered. THE WITNESS: Recalled, I	2 3 4 5 6 7 8 9 10 11 12 13	A. I did that, I took a case that, yeah, they asked me to be a witness on. Q. Well, who asked you? Was it Cornerstone or was it the law firm? A. It was the law firm. Q. Okay. Now, the next case you were involved with was a law firm of Kelley Drye & Warren LLP as an expert witness/statistical consultant in 2015, correct? A. Yes. Q. Okay. The next one was
2 3 4 5 6 7 8 9 10 11 12 13 14	Q. Right. So you basically they basically had an ability to, you were on record with Cornerstone, they connected with the first defendant, which you worked with as a consultant, and you also were recalled by them to work with Johnson & Johnson and their lawyers in this case, true? MS. LEHMAN: Object to form. Asked and answered. THE WITNESS: Recalled, I would consider recalling someone to	2 3 4 5 6 7 8 9 10 11 12 13 14	A. I did that, I took a case that, yeah, they asked me to be a witness on. Q. Well, who asked you? Was it Cornerstone or was it the law firm? A. It was the law firm. Q. Okay. Now, the next case you were involved with was a law firm of Kelley Drye & Warren LLP as an expert witness/statistical consultant in 2015, correct? A. Yes. Q. Okay. The next one was Carlson, Caspers, Vandenburgh, Lindquist,
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. Right. So you basically they basically had an ability to, you were on record with Cornerstone, they connected with the first defendant, which you worked with as a consultant, and you also were recalled by them to work with Johnson & Johnson and their lawyers in this case, true? MS. LEHMAN: Object to form. Asked and answered. THE WITNESS: Recalled, I would consider recalling someone to work with you being like that you're their employee, I'm not their employee.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. I did that, I took a case that, yeah, they asked me to be a witness on. Q. Well, who asked you? Was it Cornerstone or was it the law firm? A. It was the law firm. Q. Okay. Now, the next case you were involved with was a law firm of Kelley Drye & Warren LLP as an expert witness/statistical consultant in 2015, correct? A. Yes. Q. Okay. The next one was Carlson, Caspers, Vandenburgh, Lindquist, and Schuman between 2015 and 2016 as an
2 3 4 5 6 7 8 9 10 11 12 13 14 15	Q. Right. So you basically they basically had an ability to, you were on record with Cornerstone, they connected with the first defendant, which you worked with as a consultant, and you also were recalled by them to work with Johnson & Johnson and their lawyers in this case, true? MS. LEHMAN: Object to form. Asked and answered. THE WITNESS: Recalled, I would consider recalling someone to work with you being like that you're their employee, I'm not	2 3 4 5 6 7 8 9 10 11 12 13 14 15	A. I did that, I took a case that, yeah, they asked me to be a witness on. Q. Well, who asked you? Was it Cornerstone or was it the law firm? A. It was the law firm. Q. Okay. Now, the next case you were involved with was a law firm of Kelley Drye & Warren LLP as an expert witness/statistical consultant in 2015, correct? A. Yes. Q. Okay. The next one was Carlson, Caspers, Vandenburgh, Lindquist,
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. Right. So you basically they basically had an ability to, you were on record with Cornerstone, they connected with the first defendant, which you worked with as a consultant, and you also were recalled by them to work with Johnson & Johnson and their lawyers in this case, true? MS. LEHMAN: Object to form. Asked and answered. THE WITNESS: Recalled, I would consider recalling someone to work with you being like that you're their employee, I'm not their employee. BY MR. TISI: Q. I understand you're not their employee, but they're an expert locator company, true? They find experts for companies who are looking for experts for	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. I did that, I took a case that, yeah, they asked me to be a witness on. Q. Well, who asked you? Was it Cornerstone or was it the law firm? A. It was the law firm. Q. Okay. Now, the next case you were involved with was a law firm of Kelley Drye & Warren LLP as an expert witness/statistical consultant in 2015, correct? A. Yes. Q. Okay. The next one was Carlson, Caspers, Vandenburgh, Lindquist, and Schuman between 2015 and 2016 as an expert witness/statistical consultant, correct? A. Yes. Q. And then you worked for Haynes & Boone LLP from 2016 to 2017,
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Right. So you basically they basically had an ability to, you were on record with Cornerstone, they connected with the first defendant, which you worked with as a consultant, and you also were recalled by them to work with Johnson & Johnson and their lawyers in this case, true? MS. LEHMAN: Object to form. Asked and answered. THE WITNESS: Recalled, I would consider recalling someone to work with you being like that you're their employee, I'm not their employee. BY MR. TISI: Q. I understand you're not their employee, but they're an expert locator company, true? They find experts for litigation, true?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. I did that, I took a case that, yeah, they asked me to be a witness on. Q. Well, who asked you? Was it Cornerstone or was it the law firm? A. It was the law firm. Q. Okay. Now, the next case you were involved with was a law firm of Kelley Drye & Warren LLP as an expert witness/statistical consultant in 2015, correct? A. Yes. Q. Okay. The next one was Carlson, Caspers, Vandenburgh, Lindquist, and Schuman between 2015 and 2016 as an expert witness/statistical consultant, correct? A. Yes. Q. And then you worked for Haynes & Boone LLP from 2016 to 2017, correct?

24 these. I don't -- I didn't work for them.

24 they do is to try to find experts, but I

	D 20		P. 40
1	Page 38 I was retained as an expert witness for a	1	Page 40 It was kind of confusing, because I
1	case that they were in.	2	was first with Kelley Drye & Warren
3	Q. In which you were paid, true?	3	and I think their party dropped out
4	A. Oh, yeah, yeah, I was paid.	4	of the case and then I was retained
5	Q. Okay. Now, and you worked	5	as an expert witness by Carlson,
6	for Latham & Watkins between 2017 and the	6	- · · · · · · · · · · · · · · · · · · ·
_		7	Caspers. BY MR. TISI:
7 8	present, true? A. Yes.	· '	
1		8	Q. And how many times have you
9	Q. Okay. And you have been paid	9	been identified as an expert witness in
	by them as well?		litigation, sir?
11	A. Yeah, I have been paid by	11	A. So does that mean how many
	them.		times have I provided deposition or
13	Q. And you worked for Winston &		something else
1	Strawn between 2016 and the present, true?	14	Q. No, how many times have you
15	A. Again, I was retained as an		written a report like you have in this
1	expert witness by them. I don't know if		case, which was actually where you were
1	working for them is the right I don't		actually designated, where you gave
1	think working for them is the right		permission to the lawyers to say, yes, you
1	description.		can designate me as a witness either by
20	Q. Okay. You were retained as		writing a report, in some states, you don't
1	an expert witness by all of these law		have to write a report, so you just get
	firms, including Winston & Strawn, who is		designated. So if you would give me a
	a who is a law firm involved in this		sense of how many times you have been
24	case. Do you know that?	24	designated as an expert on behalf of these
	Page 39		Page 41
1	A. I didn't know that.	1	law firms.
1 2	A. I didn't know that.Q. Okay. Do you know whether or	1 2	=
	A. I didn't know that. Q. Okay. Do you know whether or not you can you tell me which of the law	2 3	law firms. A. I believe that is four, except that I'm not sure if the Kelley Drye
2 3 4	A. I didn't know that. Q. Okay. Do you know whether or not you can you tell me which of the law firms that are listed here where you	2 3	law firms. A. I believe that is four,
2 3 4 5	A. I didn't know that. Q. Okay. Do you know whether or not you can you tell me which of the law firms that are listed here where you actually generated a report which was	2 3 4	law firms. A. I believe that is four, except that I'm not sure if the Kelley Drye
2 3 4 5	A. I didn't know that. Q. Okay. Do you know whether or not you can you tell me which of the law firms that are listed here where you actually generated a report which was where you were designated as an expert?	2 3 4	law firms. A. I believe that is four, except that I'm not sure if the Kelley Drye & Warren and Goodman Neuman Hamilton counts
2 3 4 5 6 7	A. I didn't know that. Q. Okay. Do you know whether or not you can you tell me which of the law firms that are listed here where you actually generated a report which was	2 3 4 5	law firms. A. I believe that is four, except that I'm not sure if the Kelley Drye & Warren and Goodman Neuman Hamilton counts as two separate or just as one.
2 3 4 5 6	A. I didn't know that. Q. Okay. Do you know whether or not you can you tell me which of the law firms that are listed here where you actually generated a report which was where you were designated as an expert?	2 3 4 5 6 7	law firms. A. I believe that is four, except that I'm not sure if the Kelley Drye & Warren and Goodman Neuman Hamilton counts as two separate or just as one. Q. And in each
2 3 4 5 6 7	A. I didn't know that. Q. Okay. Do you know whether or not you can you tell me which of the law firms that are listed here where you actually generated a report which was where you were designated as an expert? MS. LEHMAN: I would just,	2 3 4 5 6 7	law firms. A. I believe that is four, except that I'm not sure if the Kelley Drye & Warren and Goodman Neuman Hamilton counts as two separate or just as one. Q. And in each A. If it's two separate, then it
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. I didn't know that. Q. Okay. Do you know whether or not you can you tell me which of the law firms that are listed here where you actually generated a report which was where you were designated as an expert? MS. LEHMAN: I would just, John, to the extent that you were disclosed as a witness, I think that's fine to talk about. To the extent you were not disclosed, that you were merely a consulting expert, I would caution you not to disclose privileged information. THE WITNESS: Okay. So with Latham & Watkins, I was, yeah, disclosed as an expert witness. With Haynes & Boone, I was. Winston & Strawn, I was. And then the previous, if you can scroll back up to the previous page, and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	law firms. A. I believe that is four, except that I'm not sure if the Kelley Drye & Warren and Goodman Neuman Hamilton counts as two separate or just as one. Q. And in each A. If it's two separate, then it would count as five. Q. And in each case, you were called upon to provide criticisms of studies or analyses done by the other side in the case, correct? A. No, I don't think that's totally correct. And to the extent that I can talk about them Q. Well, tell me A. Upon reviewing, again, like, specific papers or abstracts or Q. My point is A analyses.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. I didn't know that. Q. Okay. Do you know whether or not you can you tell me which of the law firms that are listed here where you actually generated a report which was where you were designated as an expert? MS. LEHMAN: I would just, John, to the extent that you were disclosed as a witness, I think that's fine to talk about. To the extent you were not disclosed, that you were merely a consulting expert, I would caution you not to disclose privileged information. THE WITNESS: Okay. So with Latham & Watkins, I was, yeah, disclosed as an expert witness. With Haynes & Boone, I was. Winston & Strawn, I was. And then the previous, if you can scroll back up to the previous page, and	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	law firms. A. I believe that is four, except that I'm not sure if the Kelley Drye & Warren and Goodman Neuman Hamilton counts as two separate or just as one. Q. And in each A. If it's two separate, then it would count as five. Q. And in each case, you were called upon to provide criticisms of studies or analyses done by the other side in the case, correct? A. No, I don't think that's totally correct. And to the extent that I can talk about them Q. Well, tell me A. Upon reviewing, again, like, specific papers or abstracts or Q. My point is A analyses. Q. I'm sorry, we're talking over

Page 42	Page 44
1 criticize a paper that was published by	1 Q. Well, and those words are
2 somebody else, true?	2 actually words that lawyers use all the
3 MS. LEHMAN: Object to form.	3 time. Was that a phrase that was given to
4 THE WITNESS: No, I've never	4 you by the lawyers in this case and asked
5 heard any any case where I have	5 you whether or not this paper was flawed
6 been asked to criticize something	6 and unreliable?
7 and if I was asked to just do that	7 MS. LEHMAN: Object to form.
8 outright, I would not participate.	8 THE WITNESS: No, those words
9 BY MR. TISI:	9 were not given to me by the
10 Q. Okay. Well, so let's see	lawyers.
11 if maybe the phrase I used is incorrect.	11 BY MR. TISI:
12 This is not first time where you have been	12 Q. Have you ever I'm sorry,
13 called upon to provide an analysis that a	13 go ahead.
14 paper was flawed and unreliable, true?	14 A. I mean, unreliable is
MS. LEHMAN: Object to form.	15 reliability is a common term in statistics.
16 THE WITNESS: I would still	16 Flawed is just a simple English word that
not agree with that statement.	17 something has problems.
And, again, I would not want to	18 Q. I'm using the phrase "flawed
work in a case where it was the	19 and unreliable" together the way you used
20 opinion I was supposed to provide	20 it in this report. Is that a phrase that
21 was pre-assumed.	21 you have ever used in any of your
22 BY MR. TISI:	22 publications or any of your papers or any
Q. Well, I'm not asking you	23 of your expert reports before you used it
24 whether you pre-assumed, I'm asking you	24 20 times in this case?
Page 43	
1 what your ultimate opinion was. This is	Page 45 MS. LEHMAN: Object to form.
2 not the first case in which you have	THE WITNESS: I mean, I don't
3 provided an opinion that a published paper	3 recall for sure whether I've used
4 was flawed and unreliable, true?	4 that phrase or not.
5 MS. LEHMAN: Object to form.	5 BY MR. TISI:
	6 Q. Okay. Let's go back to your
7 probably the first time that I've	7 invoice, Exhibit No. 3. So if I'm reading
8 used those words, but I would agree	8 this correctly, you met with the
9 that in these cases, there have	9 Cornerstone team on with respect to
been papers where I've found	10 generating this litigation report on
problems or issues in a paper.	11 May 20, May 21, May 22, May 26, and May 27,
12 BY MR. TISI:	12 with calls on May 28 and May 29; is that
Q. Okay. So you've typically	13 right?
14 not used the word "flawed and unreliable,"	14 A. Yes.
15 except in this case where you've used it	15 Q. Okay.
16 over 20 times, true?	16 A. That appears to be correct.
17 A. I don't recall for certainty	17 Q. I'm sorry.
18 whether I've used those words before or	18 A. Yeah, that appears to be
19 not.	19 correct based on looking here.
Q. Well, that's	Q. Who at Cornerstone did you
21 A. But I did, I will say that I	21 meet with and speak to?
22 found this paper to be particularly flawed	A. I don't recall for sure on
	22

23 each occasion who I spoke to, but the

24 people who I met with at Cornerstone

24 use those words.

23 and unreliable, yes. So there's a reason I

	Page 46		Daga 49
1	Page 46 regularly were Greg Eastman and I'm	1	Page 48 recall doing so.
	blanking right now, I'm sorry, at this	2	Q. And, in fact, if you go to
	moment, I can't think of his name, but I	3	your bibliography that you've actually used
	know it will come to me at some point.		to generate this report, were any of those
5	Q. That's okay. Do you know		papers found by Cornerstone, Mr. Eastman,
_	what their specialty was? Were they	6	or anybody else?
7		7	A. I think there were papers
l	biostatisticians? Were they		that I asked, like, them to get for me on
l	epidemiologists? What were they?		my behalf, yes.
10	A. I think they're both I	10	Q. Did they, for example, do a
l	don't know in detail, I think they're kind		research on multiple imputation and whether
	of PhDs in economic-related fields.		or not including outcomes as part of the
13	Q. Okay. So now you were		imputation model was appropriate or not
l	telling me before that they provided you	14	
	with simply administrative support. These	15	MS. LEHMAN: Object to form.
l .	were these were professional people,	16	THE WITNESS: I mean, I don't
l	true?	17	know if they did them, but not at
18	A. Yeah, I would say they have	18	my direction. They do it was
1	PhDs and they work at a company, they're	19	not in discussion with me, it was
	professional.	20	not at my request, what they did.
21	Q. Okay. Did they do any	21	What's in my report is my own words
1	research for you?	22	and of my opinions.
23	A. In the sense that at times		BY MR. TISI:
	they brought me papers that I requested. I	24	Q. Okay. So now looking back on
	Page 47		Page 49
1	asked them to generate a Google trends	1	your billing statement, May 20, 2024, you
1	figure for me.		met with the lawyers and read the paper,
3	Q. Okay. And that's the table	3	although you might not have read the whole
_	that's in your report, correct?		thing, I understand that, on the 20th.
5	A. It's not a table, it's a		When do you think you actually read the
6	figure, it's a graph, a plot.		whole paper cover to cover?
7	Q. Fine. So that wasn't your	7	MS. LEHMAN: Object to form.
8	graph, that was a graph that they generated	8	THE WITNESS: I don't know if
9	for you, correct?	9	I ever read it from start to
10	MS. LEHMAN: Object to form.	10	finish, I mean, it's just not the
11	THE WITNESS: I take	11	way people tend to approach
12	responsibility for it. It's my	12	academic papers.
13	graph. It was generated at my	13	
14	request, and yeah.	14	Q. Okay.
15	BY MR. TISI:	15	A. So but
16	Q. Have you ever used a Google	16	Q. Well, when was it that you
17	graph like that in any of your published	17	A. By the time I had written my
18	work?	18	report, I was completely familiar with the
19	MS. LEHMAN: Object to form.		paper.
20	BY MR. TISI:	20	Q. Okay. Well
21	Q. Have you used Google trends	21	A. Obviously, there were parts
22	in any of your published work?	22	that I focused on more than others.
23	A. I can't say with 100 percent	23	Q. So it looks like you actually
24	certainty that I haven't, but I don't	24	prepared notes for your report on the 22nd,

Page 50	Page 52
1 do you see that, you spent ten hours?	1 aspects of what is flawed and unreliable
2 A. Right. I spent ten hours	2 about this paper
3 reviewing the paper preparing notes for the	3 Q. So, let me be clear so let
4 report and meeting with the Cornerstone	4 me be clear. I understand you think that
5 team.	5 multiple, they're flawed and unreliable in
6 Q. Right. Ten hours on the	6 multiple areas, true?
7 22nd. Had you formed your opinions by then	7 A. Yes.
8 that the paper was flawed and unreliable?	8 Q. Okay. The first time that
9 A. I don't recall to what extent	9 you have come to the conclusion that one
10 I formed my opinions. By then, I was	10 area was flawed and unreliable was when?
11 forming my opinions in the process of	MS. LEHMAN: Object to form.
12 writing the report.	12 THE WITNESS: I don't recall
Q. Okay. When do you think in	13 that.
14 this continuum from May 20 through May 28,	14 BY MR. TISI:
15 when you actually filed your report, in	Q. Would it have been when you
16 those eight days, did you finally come to	16 started writing your report on the 23rd?
17 your opinions that you were prepared to	A. I probably had an idea of
18 offer that are reflected in your report,	18 something by the time I started writing my
19 Exhibit 1?	19 report.
MS. LEHMAN: Object to form.	Q. Okay. So just to be clear,
21 Asked and answered.	21 okay, you knew, you got this report, you
THE WITNESS: I wrote my	22 got the O'Brien (2024) from the lawyers on
report over this time and when the	23 the 20th, you met with the lawyers on the
report was written, then my	24 20th, and you had come to conclusion that
Page 51	Page 53
1 opinions were completed.	1 the paper was flawed and unreliable to
2 BY MR. TISI:	2 write a litigation report beginning on the
3 Q. Well, it says your report	3 23rd, correct?
4 was you were writing your report on the	4 MS. LEHMAN: Object to form.
5 23rd. Do you see that? And then you were	5 Misstates testimony.
6 revising your report on the 25th and the	6 THE WITNESS: I mean, again, I
7 26th and the 27th and the 28th. Was the	7 don't recall what I wrote on
8 report actually written in a draft form on	8 5/23 exactly, but between May 20
9 the 23rd?	9 and May 23rd, I mean, this was, to
10 A. I mean, I think I may have	review this paper was a compressed
11 been a little loose with my language here	timeline, so I spent a lot of time
12 between what constitutes report writing,	on the 21st and 22nd reviewing this
13 report editing, revising report. The	paper. So I would be that would
14 process was preparing my report the whole	have been plenty of time for me to
15 way through, so at times, I might be	start certainly be aware of
16 writing a paragraph and I might be editing	problems with the paper.
17 another piece.	17 BY MR. TISI:
18 Q. I understand. I'm trying to	18 Q. Right. So you spent about 18
19 get a sense, Doctor, as to when you first	19 hours, including meeting with the lawyers
	20 and the company that actually found you for
20 developed your opinion that this paper was	
21 flawed and unreliable and started for	21 the lawyers, between the 20th and starting
21 flawed and unreliable and started for 22 the purpose of generating your litigation	21 the lawyers, between the 20th and starting 22 writing the paper on the 22nd. You wrote
21 flawed and unreliable and started for	21 the lawyers, between the 20th and starting

Page 54 1 Q. Yeah. I said, just so that 2 we're clear, okay, you did not receive this 3 paper in the normal course of your 4 research, this paper was provided to you by 5 the lawyers and the company that was 6 retained by the lawyers to locate you on 7 the 20th, true? 8 A. I received the paper from 9 them and I also downloaded it on the 20th. 10 Q. Right. And you spent about 11 18 hours, after meeting with the lawyers 12 and Cornerstone, the company that locates 13 experts for lawyers, in two days between 14 the 20th and the 22nd, true? 15 MS. LEHMAN: Object to form. 16 THE WITNESS: I don't want to 17 categorize what Cornerstone does as 18 part of the question. I mean 19 BY MR. TISI: 20 Q. Fine. 21 A Cornerstone contacted me. 22 What they do 23 Q. So let's be clear 24 A their business is, like, Page 55 1 if we can leave it out of it. 2 Q. Then I'll leave it out. I'll 3 leave it out. Let me rephrase the 4 question, sir. Okay. You were provided a 5 copy of O'Brien (2024) on the 20th. You Page 54 1 a reliable association between talcum 2 powder use and ovarian cancer. Getting to 3 causation is a much higher bar than that, 4 and I don't think they've reliably got to 5 the lower bar. 6 Q. Okay. In this one paper, you 7 haven't looked at any other papers I 8 know you looked at some other papers by 9 O'Brien and colleagues, but you didn't look 10 at any of the other case control or cohort 11 studies that were generated in this 12 litigation for the past 50 years, did you? 13 MS. LEHMAN: Object to form. 14 THE WITNESS: I did look at 15 some of them. I looked atI 16 looked in particular at one or two 17 meta-analyses in particular of the 18 case controls and one that combined 29 case control and cohort. And I 20 Q. Then i'll leave it out. I'll 31 leave it out. Let me rephrase the 4 question, sir. Okay. You were provided a 5 copy of O'Brien (2024) on the 20th. You 18 are lawer to lower and ovarian cancer. 29 Q. Okay. In this one paper, you
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3 causation is a much higher bar than that, 4 research, this paper was provided to you by 5 the lawyers and the company that was 6 retained by the lawyers to locate you on 7 the 20th, true? 8 A. I received the paper from 9 them and I also downloaded it on the 20th. 10 Q. Right. And you spent about 11 18 hours, after meeting with the lawyers 12 and Cornerstone, the company that locates 13 experts for lawyers, in two days between 14 the 20th and the 22nd, true? 15 MS. LEHMAN: Object to form. 16 THE WITNESS: I don't want to 17 categorize what Cornerstone does as 18 part of the question. I mean 19 BY MR. TISI: 19 Q. Fine. 20 Q. Fine. 21 A Cornerstone contacted me. 22 What they do 23 Q. So let's be clear 24 A their business is, like, Page 55 1 if we can leave it out of it. 2 Q. Then I'll leave it out. I'll 3 leave it out. Let me rephrase the 4 question, sir. Okay. You were provided a 5 copy of O'Brien (2024) on the 20th. You 3 causation is a much higher bar than that, 4 and I don't think they've reliably got to 5 the lower bar. 6 Q. Okay. In this one paper, you 7 haven't looked at any other papers I 8 know you looked at some other papers by 9 O'Brien and colleagues, but you didn't look at any of the other case control or cohort 11 studies that were generated in this 12 litigation for the past 50 years, did you? 13 MS. LEHMAN: Object to form. 14 the 20th and the 22nd, true? 15 MS. LEHMAN: Object to form. 16 THE WITNESS: I don't want to 17 categorize what Cornerstone does as 18 part of the question. I mean 19 BY MR. TISI: 19 case control and one that combined 19 case control and cohort. And I 20 don't recall if I looked at any of 21 the individual studies, but I 22 looked at the meta-analyses that 23 summarized each of the studies. 24 Page 57 1 BY MR. TISI: 2 Q. Okay. But just to be clear, 3 okay, you have not done a comprehensive 4 review of all of the data to determine 5 whether or not as a whole talc is
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5 copy of O'Brien (2024) on the 20th. You 5 whether or not as a whole talc is
to be most right the ferritions on the With And by the Angelog of the granded with an equipped by the courses
6 met with the lawyers on the 20th. And by 7 the 22nd, you had come to the conclusion in 7 ovarian cancer, correct? You just looked
8 some fashion that the paper was flawed and 8 at this paper, true?
9 unreliable? 9 MS. LEHMAN: Object to form.
10 A. I don't know that I had in my 10 THE WITNESS: No, I didn't
11 head the words "flawed and unreliable" on 11 just look at this paper. I looked
12 the 22nd. I don't have that strong a 12 at the papers by O'Brien too and I
13 memory. But by the end of the 22nd, I 13 also looked at meta-analyses
14 would be pretty sure that I was aware by 14 studies that considered
15 that time that there were problems with the 15 BY MR. TISI:
16 paper. 16 Q. Right, and that was a bad
17 Q. Okay. You didn't do a 17 question. Let me rephrase the question.
18 comprehensive evaluation or assessment of 18 Okay.
19 the causation question, did you? In other 19 Your task in this case was
20 words, whether or not talc was causes 20 not to offer an opinion as to whether or
21 ovarian cancer, did you? 21 not talc causes ovarian cancer, your task
22 A. I did not do that I 22 was to comment on the methods and
22 A. I did not do that I 23 didn't I was evaluating for a lower bar 22 was to comment on the methods and 23 conclusions in O'Brien (2024), correct?

Page 58 Page 60 1 THE WITNESS: My task was to 1 Q. Why did you think it would be 2 independently review O'Brien (2024) 2 inappropriate to ask any of the authors, if and the methods used in that. 3 3 you had any questions about the methodology 4 BY MR. TISI: 4 that they used, why they did what they did, 5 Okay. And you had come, just 5 why do you think it would be inappropriate O. 6 to be clear, you had come to the conclusion 6 to actually call them and say I have some 7 that there were serious methodologic issues 7 questions, let me know. 8 in three days between the time you met the 8 A. Because I was -- it would be 9 lawyers and the time you started preparing 9 inappropriate in the same way that if I was 10 your report, true? 10 reviewing an academic paper for a journal, 11 MS. LEHMAN: Object to form. 11 it would be a really terrible thing to 12 THE WITNESS: I think that 12 contact one of the authors to start asking 13 would be typical for academic 13 them questions about the paper. That would 14 review of a paper that you would 14 be totally unacceptable. 15 generate your views within that 15 Q. Why is that unacceptable? period of time, especially if you 16 Tell me why. 16 17 spend the amount of hours that I 17 Α. Because of confidentiality of 18 did. 18 review, because it means that the reviewer 19 BY MR. TISI: 19 can be influenced by opinions. 20 Q. Okay. Now, in the three days 20 Q. Well, if you look at -- if 21 before you -- you raised numerous questions 21 you look at page 14 of Exhibit No. 8, which 22 about what the authors of -- the NIH 22 is the O'Brien study, she lists herself as 23 the O'Brien -- as the corresponding author 23 scientists who actually drafted this paper, 24 what they did, how they did it, throughout 24 and she gives her email address. Do you Page 59 Page 61 1 your report, correct? You had some 1 see that? 2 questions and concerns, true? 2 Okay. I think it's pretty A. 3 MS. LEHMAN: Object to form. 3 common in paper -- I'm going to page 8 now, 4 THE WITNESS: I certainly have 4 but, yeah, it's pretty common for there to 5 5 be a corresponding author on a paper that concerns about the methods reported 6 in the paper. 6 provides their email address. 7 7 BY MR. TISI: Q. And why do they do that, Q. In any of the three days 8 Dr. Kornak? 9 between the time you were contacted by the 9 A. Because if people are 10 lawyers and the time you started drafting 10 interested in the research, they can 11 your report, did you reach out to any of 11 contact them. 12 the NIH authors to ask them why they did 12 And you weren't really O. 13 what they did? 13 interested in the research, were you? You 14 MS. LEHMAN: Object to form. 14 didn't contact them at all at any time, 15 THE WITNESS: No, I think that 15 have you? would be inappropriate. 16 MS. LEHMAN: Object to form. 16 17 Argumentative. Asked and answered. 17 BY MR. TISI: 18 O. Well, Dr. O'Brien is listed 18 BY MR. TISI: Q. Let me rephrase the question. 19 19 as the corresponding author on this study, 20 correct? 20 Dr. Kornak, between the time the lawyers

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21 met you on the 20th and today, have you

ever reached out to the NIH scientists toask them any questions about the research

24 that they did?

24 author.

A.

I would have to double-check

22 that. I know she's the first author. I

23 didn't check if she's the corresponding

21

	Page 62		Page 64
1	MS. LEHMAN: Object to form.	1	ž
2	THE WITNESS: I have not.		performed the quantitative bias analysis
3	Again, I would not think it's	3	reflected in the four scenarios in Table 2
4	appropriate.	4	of the O'Brien (2024) study, correct?
5	BY MR. TISI:	5	MS. LEHMAN: Object to form.
6	Q. Okay. Even though Katie	6	Asked and answered.
7	O'Brien lists herself as the corresponding	7	THE WITNESS: What I know of
8	· · · · · · · · · · · · · · · · · · ·	8	about how they performed this study
9	that she would not have answered your	9	is what they reported within their
10	1	10	paper. And it's academically
11	MS. LEHMAN: Objection. Asked	11	expected that when you describe an
12	and answered.	12	experiment within a paper and the
13	THE WITNESS: I don't know	13	analysis that you performed that
14	Katie O'Brien. I don't know how	14	you provide enough information for
15	responsive she is to emails. I	15	that to be reproducible.
16	E		BY MR. TISI:
17	papers, I never contact the	17	Q. Do you know so you never
18	corresponding author. I don't let		contacted them and asked them, for example,
19	them know even after the fact		, , , , , ,
20	whether or not I reviewed their		opposed to individual imputation as a
21	paper. I consider that to be		method? You never asked that question, did
22	confidential		you?
	BY MR. TISI:	23	MS. LEHMAN: Object to form.
24	Q. That's a different question.	24	Asked and answered.
	Page 63		Page 65
$\frac{1}{2}$	A and that I reviewed this.	1	THE WITNESS: I didn't ask
2	Q. That's a different question.	2	that question. I would have no
3	I'm not asking you to reach out to somebody	3	interest in asking that question,
4	during the peer-review process. This paper	4	because I don't think it's relevant
5	1 3	5	to my opinions. And okay
_	May 15, right? You had some questions	6	BY MR. TISI:
7	about this paper and why they did what they	7	Q. I'm sorry, I didn't mean to
8	1 &		interrupt. Finish your sentence, please.
9	1 1	9	A. I'm fine stopping there.
10	paper had been published, after all the criticisms and all the information about	10	Q. Okay. For example, at the
			end of your report, you had questions about whether or not the decision to some of
	this study had been put out there for the world to see it, did you ever contact them	13	
	with any of the concerns you raise in your		imputation were done a priori or whether it
	litigation report?		was done after the study had begun. Do you
16	-		remember those questions?
17	· ·	17	MS. LEHMAN: Object to form.
18		18	THE WITNESS: I would like to
19		19	look specifically at those
20	11 1	20	questions. If you want to go to
21	paper to seek out additional	21	that section of the report and
$\begin{vmatrix} 21\\22\end{vmatrix}$	opinions.	22	let's do that and discuss it.
23	•	23	BY MR. TISI:
24		24	Q. Sure. In your report, you

1			
1	Page 66 have a section entitled "The lack of	1	Page 68
	prespecified analysis renders the authors'		specific prospective data to Appendix 2 and you do that in paragraph 29 of your
$\frac{2}{3}$			litigation report, true?
4	Do you see that?	4	A. Yes, I recall that. I'm
5	A. Yes, I recall that, I'm just	5	going to the paragraph now and I do recall
6		6	that and I firmly stand by that statement.
	yes.	7	Q. And you don't know why they,
8	Q. So you don't know whether or	'	quote, "relegated" it to the appendix, do
	not their methods were set out a priori, do		you?
1	you, true?	10	A. I mean, I don't know what's
11	MS. LEHMAN: Object to form.	-	in the authors' mind other than what
12	THE WITNESS: If they had a	l	they've written in their paper.
13	prespecified analysis plan, it	13	Q. And you didn't ask them, did
14	should be specified, they should be	l	you?
15	specifying that within the paper.	15	MS. LEHMAN: Object to form.
16	BY MR. TISI:	16	Asked and answered.
17	Q. But they you didn't	17	THE WITNESS: I didn't. I
18	contact them, this is a criticism that you	18	don't think that would be
19	made of these authors with no knowledge,	19	appropriate.
20	you didn't call them and see whether in	20	BY MR. TISI:
21	fact, it could have been suggested by the	21	Q. Well, there are plenty of
22	peer reviewers, correct?	22	ways in which scientists actually raise
23	MS. LEHMAN: Object to form.	23	questions about academic papers, true?
24	THE WITNESS: Okay. I don't	24	A. Sorry, repeat the question
	Page 67		Page 69
1	want to speculate as what the peer	1	
2	reviewers may or may not have said.	2	Q. There are plenty of ways in
3	BY MR. TISI:	3	the world of science where scientists
4	Q. But you are rendering an	4	exchange views about the relative merit
5	opinion here about that there was not a	5	MS. LEHMAN: Chris, you broke
6	prespecified analysis and you don't know	6	up. I'm not sure I got the last of
7	the answer to that question, do you?	7	that question.
8	MS. LEHMAN: Object to form.	l	BY MR. TISI:
9	Asked and answered.	9	Q. Yeah. There are plenty of
10	THE WITNESS: Well, everything	l	ways in which scientists raise questions
11	in this paper indicates a lack of a	11	about research in the normal course of
	prespecified analysis plan. There	12	·
12	ana ambitmamy abaires ef		A. Correct.
13	are arbitrary choices of	13	All might One of the
13 14	proportions that are corrected.	14	Q. All right. One of the ways
13 14 15	proportions that are corrected. There are arbitrary levels of	14 15	you can do it is like we have been
13 14 15 16	proportions that are corrected. There are arbitrary levels of recall bias that are performed.	14 15 16	you can do it is like we have been suggesting is contact the authors and ask
13 14 15 16 17	proportions that are corrected. There are arbitrary levels of recall bias that are performed. None of those are justified within	14 15 16 17	you can do it is like we have been suggesting is contact the authors and ask questions, but let's put that aside for a
13 14 15 16 17 18	proportions that are corrected. There are arbitrary levels of recall bias that are performed. None of those are justified within the paper. That lack of	14 15 16 17 18	you can do it is like we have been suggesting is contact the authors and ask questions, but let's put that aside for a minute. You could write a letter to the
13 14 15 16 17 18 19	proportions that are corrected. There are arbitrary levels of recall bias that are performed. None of those are justified within the paper. That lack of justification indicates a lack of a	14 15 16 17 18 19	you can do it is like we have been suggesting is contact the authors and ask questions, but let's put that aside for a minute. You could write a letter to the editor of this journal, true? You've seen
13 14 15 16 17 18 19 20	proportions that are corrected. There are arbitrary levels of recall bias that are performed. None of those are justified within the paper. That lack of justification indicates a lack of a prespecified analysis plan.	14 15 16 17 18 19 20	you can do it is like we have been suggesting is contact the authors and ask questions, but let's put that aside for a minute. You could write a letter to the editor of this journal, true? You've seen that done.
13 14 15 16 17 18 19 20 21	proportions that are corrected. There are arbitrary levels of recall bias that are performed. None of those are justified within the paper. That lack of justification indicates a lack of a prespecified analysis plan. BY MR. TISI:	14 15 16 17 18 19 20 21	you can do it is like we have been suggesting is contact the authors and ask questions, but let's put that aside for a minute. You could write a letter to the editor of this journal, true? You've seen that done. A. You could, if that was
13 14 15 16 17 18 19 20 21 22	proportions that are corrected. There are arbitrary levels of recall bias that are performed. None of those are justified within the paper. That lack of justification indicates a lack of a prespecified analysis plan. BY MR. TISI: Q. Now, you claim, for example,	14 15 16 17 18 19 20 21 22	you can do it is like we have been suggesting is contact the authors and ask questions, but let's put that aside for a minute. You could write a letter to the editor of this journal, true? You've seen that done. A. You could, if that was something you wanted to pursue, you could
13 14 15 16 17 18 19 20 21 22 23	proportions that are corrected. There are arbitrary levels of recall bias that are performed. None of those are justified within the paper. That lack of justification indicates a lack of a prespecified analysis plan. BY MR. TISI:	14 15 16 17 18 19 20 21 22 23	you can do it is like we have been suggesting is contact the authors and ask questions, but let's put that aside for a minute. You could write a letter to the editor of this journal, true? You've seen that done. A. You could, if that was

of many people that do that. Q. Well, you could write a letter to the authors and ask the authors	1 2	Page 72 litigation report for which you charged
Q. Well, you could write a		· · ·
· •		OVER \$301000 frue?
	3	over \$50,000, true? MS. LEHMAN: Object to form.
formally to respond to your criticisms,	4	THE WITNESS: The only place I
· · · · · · · · · · · · · · · · · · ·	5	• •
true? In fact, you've seen that done in		have commented on this paper is
this case with O'Brien (2020) where there	6	within this report.
is authors including, for example, Ken	7	BY MR. TISI:
		Q. Okay. And you were paid
•		\$50,000 to do it, true?
•		MS. LEHMAN: Object to form.
• •		THE WITNESS: My invoice is
		there, I forget the exact amount,
•		but I think that is it.
		BY MR. TISI:
· ·		Q. Let's look at it. The number
*		is \$50,000, correct?
		A. 50,400, yeah.
		Q. All right. And since that
		time, have you also spent time with
		Ms. Davidson, perhaps other lawyers or
		Cornerstone working on this project?
		A. I have spent more time
the editor.		reviewing materials, preparing for
Q. Nobody is asking for public	24	deposition.
Page 71		Page 73
denouncement, okay? If you have questions	1	Q. How many hours?
about research, you could write a letter to	2	A. I would estimate it has been,
the journal and ask the authors to clarify	3	I don't know, somewhere between 50 and 100
what they did, and you didn't do that here,	4	hours.
did you?	5	Q. Fifty and 100 hours in
MS. LEHMAN: Objection. Asked	6	addition?
and answered.	7	A. Yeah, I think so.
THE WITNESS: I did not write	8	Q. Okay. And so at your rate of
a letter to the editor. I did not	9	\$700 an hour, what would that be?
email the authors. I did not think	10	A. If it was 100 hours, it would
those things were appropriate for	11	be 70,000.
me to do. I had a certain amount	12	Q. Okay. So to be fair and just
of time that I wanted to	13	to be clear, the only place you have
independently review the paper,	14	ever I mean, the opinions you offer here
O'Brien (2024), and that's what I		as a scientist about a particular paper,
did. And my opinions about the		the opinions you offer here are pretty
paper are what they are and if I	17	strong opinions, true?
had spoken to authors about that,	18	A. Yeah, I stand by my opinions.
it wouldn't change my opinions	19	Q. Okay. But they're pretty
		strong, these aren't peripheral kinds of
BY MR. TISI:	21	
Q. All right. And the only		methodologic allegations you make on these
place that you have ever expressed your		authors and their methods about how they
	Page 71 denouncement, okay? If you have questions about research, you could write a letter to the journal and ask the authors to clarify what they did, and you didn't do that here, did you? MS. LEHMAN: Objection. Asked and answered. THE WITNESS: I did not write a letter to the editor. I did not email the authors. I did not think those things were appropriate for me to do. I had a certain amount of time that I wanted to independently review the paper, O'Brien (2024), and that's what I did. And my opinions about the paper are what they are and if I had spoken to authors about that, it wouldn't change my opinions about what's in the paper.	O'Brien explained herself, true? MS. LEHMAN: Object to form. Object to counsel testifying. THE WITNESS: I did see a letter written by those two authors. I don't know what their motives were for doing that and I don't want to speculate on that, but BY MR. TISI: Q. Right, but A. But as academics, we don't usually go out trying to publicly denounce what other people are doing in letters to the editor. Q. Nobody is asking for public Page 71 denouncement, okay? If you have questions about research, you could write a letter to the journal and ask the authors to clarify what they did, and you didn't do that here, did you? MS. LEHMAN: Objection. Asked and answered. THE WITNESS: I did not write a letter to the editor. I did not email the authors. I did not think those things were appropriate for me to do. I had a certain amount of time that I wanted to independently review the paper, O'Brien (2024), and that's what I did. And my opinions about the paper are what they are and if I had spoken to authors about that, it wouldn't change my opinions about what's in the paper.

I		Page 7-
	1	A. They are appropriate
	2	criticisms.
	3	Q. Okay. They're strong
	4	criticisms. If you got a criticism
	5	A. No, no, I don't sorry, I
	6	don't want to interrupt you. Sorry, go
	7	ahead.
	8	Q. Well, then let me ask you
	9	this question, if you got a criticism like
	10	this of one of your papers, would you
	11	consider it to be a strong criticism?
	12	MS. LEHMAN: Object to form.
	13	THE WITNESS: I mean, I would
	14	consider it to be a criticism.
	15	What the way you would exactly
	16	draw the line between strong and
	17	not strong in academic criticism, I
	18	don't know exactly how to specify,
	19	but I certainly criticize and think
	20	there are problems with the
	21	approach.
	22	BY MR. TISI:
	23	Q. Well, in this report, I'm
	24	going to say you used the word, the phrase
İ		Dags 75

Page 76 1 analysis. I just want to be clear, 2 I'm not criticizing individuals. 3 BY MR. TISI: Q. I understand. So -- I'm 5 sorry -- you are making a very strong 6 criticism in very strong terms of the 7 methods used by these NIH scientists in publishing this peer-reviewed paper, true? 9 MS. LEHMAN: Object to form. 10 THE WITNESS: I'm criticizing the methods they use. I'm not 11 going to characterize it with the 12 13 word "strong," that --14 BY MR. TISI: 15 Q. Well, you used the words 16 "flawed," "unreliable," "vacuous," 17 "contrived," I mean, those are your words 18 in your report, true? But you're just taking -- the A. 20 words may be in my report in some way, but 21 you're taking them out of context and --Q. I understand but those are --23 I'm sorry. I'm talking over you. I don't 24 mean to. Those are words that you use to Page 77

Page 75 1 "flawed and unreliable" over 20 times. And 2 if you go to paragraph 74 of your report, 3 you call this analysis contrived, vacuous, 4 and overstating. Do you see that? 5 6 MS. LEHMAN: Object to form. 7 THE WITNESS: I think those 8 are used in the paragraph, but 9 they're not used as you stated 10 them. 11 BY MR. TISI: 12 Q. Okay. My point is, Doctor, 13 and I'm really trying to get to 20,000 per 14 year. Okay. This is a very strong report 15 where you use very strong language and very 16 strong criticisms of these NIH scientists 17 who published a paper in a peer-reviewed 18 journal, true or not true? 19 A. I am not criticizing --20 MS. LEHMAN: Object to form. THE WITNESS: -- the 21 scientists. I'm criticizing the 22

science of the paper. I'm

criticizing the biostatistical

1 describe various aspects of their analysis, 2 true? 3 MS. LEHMAN: Object to form. 4 Asked and answered. 5 THE WITNESS: I would need to 6 go through each sentence one by one 7 to sort of explain to you how that 8 word is being used, and I'm happy 9 to do that if you want to walk 10 through each of the sentences --11 BY MR. TISI: 12 We're going to. Q. 13 -- rather than your general 14 statement on those words. So we can --15 We're going to. But let me 16 ask you as an overall thing. If you had 17 received from one of your colleagues a 18 report like the one that you drafted, you 19 drafted in this case about one of your 20 papers, would you consider that to be a 21 pretty strong rebuke of your research? 22 MS. LEHMAN: Objection. Asked 23 and answered. 24 THE WITNESS: I'm not going to

23

24

	Page 78		Page 80
1	use the word "strong." I mean,	1	this case, has it?
2	again	2	A. I don't know who has and who
3	BY MR. TISI:	3	hasn't seen my report.
4	Q. Okay. Then let's take the	4	Q. You haven't presented it.
5	word	5	You haven't sent it to anybody outside of
6	A. I take criticism, sometimes	6	this case, have you?
7	it hurts, but overall, it tends to be	7	A. No, I think I shouldn't from
8	constructive in academia for the positive	8	a confidentiality perspective and that's
9	even if it hurts sometimes.	9	another reason I don't think I should have
10	Q. Okay. But this isn't an	10	contacted the authors of the paper or
11	academic report, is it? This is a	11	anything like that. I think that would be
12	litigation report, true?	12	inappropriate.
13	A. I thought we were talking	13	Q. Nothing prevents you from
14	about the paper as a report, sorry	14	speaking to your students at UCSF and
15	Q. I'm asking you	15	saying, you know, I'm going to illustrate
16	A. A criticism of a report,		to you the kinds of methodologic flaws that
	that's what we're talking about. Like, you		can come from an improper biostatistic
	were talking about criticism of a report		analysis and let me use this paper as an
19	that I had wrote of some kind. I assumed	19	example. You've never done that, have you?
	you were talking about the paper, so I just	20	A. Well, I mean I think it's
	want to clarify.		first of all, a physical impossibility,
22	Q. Okay. If you had received		because I was retained on this case on
	let's take it in ones, right? If you had		May 20 and, you know, I haven't been doing
24	received a criticism like you prepared of	24	any teaching since then, I haven't been in
	Page 79		Page 81
	one of your papers, would you consider that		touch with students. But I would also
2	to be serious?	_	still respect the confidentiality aspect
3	MS. LEHMAN: Objection. Asked	3	that I don't know exactly where the line is
4	and answered.	4	as to when you're breaking confidentiality
5	THE WITNESS: I mean, I don't		or not, so I err on the side of safety and,
6	know why you're looking for a		yes, I don't discuss with anyone or
7	qualifying word here, but if		anything. So if it's a paper why would
8	there's criticism, I take		I choose why would I not just go to
9	criticism. Sometimes it hurts.		another paper that is completely unrelated
10	That's a feeling that you have whenever you're criticized for your	10	and I don't take any risk of breaking confidentiality. That would be my
11 12	academic work or other work. But,	11 12	
13	in general, I find that it's a	13	thinking. Q. And
14	positive thing to learn from	14	MS. LEHMAN: And Chris, Chris,
15	criticism.	15	I don't mean to interrupt you, but
	BY MR. TISI:	16	when you get to a good stopping
17	Q. Okay. Now, your report was	17	point, can we take a bathroom
	not intended to engage these authors in an	18	break?
19	academic exercise, was it, it was a		BY MR. TISI:
20	litigation report, true?	20	Q. Sure. No problem. So you
21	A. Yes, it's a litigation		think because you were retained as an
1	report, yeah.		expert in litigation, that removes you from
23	Q. And it has not been presented		commenting on this paper in any scientific
24	to any scientist outside of the lawyers in		form, is that what you're saying?
	<u> </u>		· · · ·

1	Page 82		Page 84
1	A. No, I'm not saying that. I	1	date.
2	think I said clearly before that I don't	2	Q. Is there anything that needs
	know where the line is and so I opt to	3	to be added to it in order for us to fully
	respect confidentiality as much as	l	understand your professional background and
	possible.	5	experience particularly as it relates to
6	Q. Did you ask? Did you ask the	6	the issues in this case?
7	lawyers and say, you know, this paper is	7	A. I don't think so.
8		8	Q. Okay. Are you an
9	present it out there so that nobody relies	l	epidemiologist?
	on this paper? You've not done that, have	10	A. No, I'm a biostatistical
	you?	11	expert, but I have a lot of experience in
12	MS. LEHMAN: And I'm just		epidemiological areas.
13	going to object and instruct	13	Q. What is the difference
14	Dr. Kornak that to the extent he's	14	between a biostatistician and an
15	talking about communications with	l	epidemiologist?
16	the lawyers, he can talk about	16	
17	facts and data that he considered	17	question to fully answer, but the
18	in rendering the report, but		biostatistician is generally more focused
19	otherwise, I'm going to instruct		on the computation methods for analyzing
20	that communications with the		data and for understanding data whereas the
21	lawyers are privileged and		epidemiologist tends to be more focused on
22	confidential.		kind of typically a more specific clinical
23	MR. TISI: What they say to		area and have an interest there.
24	him is privileged and confidential.	24	Q. The epidemiologist is more
	Page 83		Page 85
1	Have you asked anyone if you can	1	involved with the actual interpretation of
2	criticize this outside of	2	the data and putting it in context with
3	litigation?	3	what is with the body of medical and
4	THE WITNESS: I'm just going	4	scientific literature, true?
5	to repeat my answer, I err on the	5	A. I wouldn't say they're more
6	side of confidentiality, so I	6	involved with the interpretation of the
7	was did not talk to additional	7	data. They're definitely, I would agree,
8	people.	0	that within a particular clinical area, if
0		0	that within a particular chinical area, if
9	MR. TISI: Okay. All right.	9	that's where they're working, they would be
9 10	Let's take a quick break.	9 10	that's where they're working, they would be more knowledgeable on placing the research
9 10 11	•	9 10 11	that's where they're working, they would be more knowledgeable on placing the research in that area, but interpretation of data is
9 10 11 12	Let's take a quick break. THE WITNESS: Thank you.	9 10 11 12	that's where they're working, they would be more knowledgeable on placing the research in that area, but interpretation of data is very much biostatistical.
9 10 11 12 13	Let's take a quick break.	9 10 11 12 13	that's where they're working, they would be more knowledgeable on placing the research in that area, but interpretation of data is very much biostatistical. Q. Let me ask you this way. If
9 10 11 12 13 14	Let's take a quick break. THE WITNESS: Thank you. (A recess was taken at this time.)	9 10 11 12 13 14	that's where they're working, they would be more knowledgeable on placing the research in that area, but interpretation of data is very much biostatistical. Q. Let me ask you this way. If an epidemiologist and biostatistician are
9 10 11 12 13 14 15	Let's take a quick break. THE WITNESS: Thank you. (A recess was taken at this time.) BY MR. TISI:	9 10 11 12 13 14 15	that's where they're working, they would be more knowledgeable on placing the research in that area, but interpretation of data is very much biostatistical. Q. Let me ask you this way. If an epidemiologist and biostatistician are cowriting an original epidemiologic study
9 10 11 12 13 14 15 16	Let's take a quick break. THE WITNESS: Thank you. (A recess was taken at this time.) BY MR. TISI: Q. All right. Dr. Kornak, we	9 10 11 12 13 14 15 16	that's where they're working, they would be more knowledgeable on placing the research in that area, but interpretation of data is very much biostatistical. Q. Let me ask you this way. If an epidemiologist and biostatistician are cowriting an original epidemiologic study either, for example, a case control study
9 10 11 12 13 14 15 16 17	Let's take a quick break. THE WITNESS: Thank you. (A recess was taken at this time.) BY MR. TISI: Q. All right. Dr. Kornak, we have been provided with your CV, which I've	9 10 11 12 13 14 15 16 17	that's where they're working, they would be more knowledgeable on placing the research in that area, but interpretation of data is very much biostatistical. Q. Let me ask you this way. If an epidemiologist and biostatistician are cowriting an original epidemiologic study either, for example, a case control study or a cohort study, what would the typical
9 10 11 12 13 14 15 16 17 18	Let's take a quick break. THE WITNESS: Thank you. (A recess was taken at this time.) BY MR. TISI: Q. All right. Dr. Kornak, we have been provided with your CV, which I've had marked as Exhibit No. 2. If you pull	9 10 11 12 13 14 15 16 17 18	that's where they're working, they would be more knowledgeable on placing the research in that area, but interpretation of data is very much biostatistical. Q. Let me ask you this way. If an epidemiologist and biostatistician are cowriting an original epidemiologic study either, for example, a case control study or a cohort study, what would the typical respective roles of the biostatistician be
9 10 11 12 13 14 15 16 17 18	Let's take a quick break. THE WITNESS: Thank you. (A recess was taken at this time.) BY MR. TISI: Q. All right. Dr. Kornak, we have been provided with your CV, which I've had marked as Exhibit No. 2. If you pull that out, please.	9 10 11 12 13 14 15 16 17 18	that's where they're working, they would be more knowledgeable on placing the research in that area, but interpretation of data is very much biostatistical. Q. Let me ask you this way. If an epidemiologist and biostatistician are cowriting an original epidemiologic study either, for example, a case control study or a cohort study, what would the typical respective roles of the biostatistician be in relationship to the epidemiologist?
9 10 11 12 13 14 15 16 17 18 19 20	Let's take a quick break. THE WITNESS: Thank you. (A recess was taken at this time.) BY MR. TISI: Q. All right. Dr. Kornak, we have been provided with your CV, which I've had marked as Exhibit No. 2. If you pull that out, please. A. Yes.	9 10 11 12 13 14 15 16 17 18 19 20	that's where they're working, they would be more knowledgeable on placing the research in that area, but interpretation of data is very much biostatistical. Q. Let me ask you this way. If an epidemiologist and biostatistician are cowriting an original epidemiologic study either, for example, a case control study or a cohort study, what would the typical respective roles of the biostatistician be in relationship to the epidemiologist? A. I would say that really
9 10 11 12 13 14 15 16 17 18 19 20 21	Let's take a quick break. THE WITNESS: Thank you. (A recess was taken at this time.) BY MR. TISI: Q. All right. Dr. Kornak, we have been provided with your CV, which I've had marked as Exhibit No. 2. If you pull that out, please. A. Yes. Q. Does your CV accurately	9 10 11 12 13 14 15 16 17 18 19 20 21	that's where they're working, they would be more knowledgeable on placing the research in that area, but interpretation of data is very much biostatistical. Q. Let me ask you this way. If an epidemiologist and biostatistician are cowriting an original epidemiologic study either, for example, a case control study or a cohort study, what would the typical respective roles of the biostatistician be in relationship to the epidemiologist? A. I would say that really depends and can vary quite a lot. I mean,
9 10 11 12 13 14 15 16 17 18 19 20 21 22	Let's take a quick break. THE WITNESS: Thank you. (A recess was taken at this time.) BY MR. TISI: Q. All right. Dr. Kornak, we have been provided with your CV, which I've had marked as Exhibit No. 2. If you pull that out, please. A. Yes. Q. Does your CV accurately reflect your professional experience?	9 10 11 12 13 14 15 16 17 18 19 20 21 22	that's where they're working, they would be more knowledgeable on placing the research in that area, but interpretation of data is very much biostatistical. Q. Let me ask you this way. If an epidemiologist and biostatistician are cowriting an original epidemiologic study either, for example, a case control study or a cohort study, what would the typical respective roles of the biostatistician be in relationship to the epidemiologist? A. I would say that really depends and can vary quite a lot. I mean, it varies a lot.
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Let's take a quick break. THE WITNESS: Thank you. (A recess was taken at this time.) BY MR. TISI: Q. All right. Dr. Kornak, we have been provided with your CV, which I've had marked as Exhibit No. 2. If you pull that out, please. A. Yes. Q. Does your CV accurately	9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	that's where they're working, they would be more knowledgeable on placing the research in that area, but interpretation of data is very much biostatistical. Q. Let me ask you this way. If an epidemiologist and biostatistician are cowriting an original epidemiologic study either, for example, a case control study or a cohort study, what would the typical respective roles of the biostatistician be in relationship to the epidemiologist? A. I would say that really depends and can vary quite a lot. I mean,

,	Page 86		Page 88
	were explaining to your students, and let's	1	A. Imaging and non-imaging
	say you were co-teaching with an	2	perspective.
3	epidemiologist, how would you define your	3	Q. Right, but the primary focus,
	respective roles in writing a paper?	4	and you may have touched on issues relating
5	A. So it can range from, I'm	5	to, for example, breast cancer, but your
6	being very loose here, but it can range	6	primary focus was on imaging for tumors, et
7	from as a biostatistician that it could be	7	cetera, correct?
8	a very straightforward consulting role on a	8	MS. LEHMAN: Object to form.
	project where there's data that has already	9	THE WITNESS: I don't think
	been collected and needs to be analyzed and	10	touched on is a good description of
	the statistician would take that data and	11	sort of my involvement with breast
	analyze it appropriately and then help with	12	cancer.
	the writing of the paper maybe in the	13	BY MR. TISI:
14	results section and the methods section and	14	Q. Well, have you ever, for
15	so on. That's kind of down at one end. At	15	example, done a study that studies risk
16	the upper end, it can be that the	16	factors for where the primary goal of
17	statistician is right there helping with	17	the study was to discover risk factors for
18	the experimental design, helping with	18	breast cancer?
19	thinking about how to recruit individuals	19	A. Yes.
20	with minimal bias. All of those pieces	20	Q. Okay. How about ovarian
21	that I said that they would do in a	21	cancer, have you ever published in the area
22	consulting role, but they would be much	22	of ovarian cancer?
23	more involved and interested in the	23	A. I don't recall any of my
24	research on their own behalf too.	24	publications being specifically ovarian
	Page 87		Page 89
1	Q. So would it be fair to say	1	cancer. Just cancer in general, many
2	that, generally speaking, the	2	areas, but not ovarian cancer.
3	epidemiologist as opposed to the	3	Q. Have you ever designed a
4	biostatistician would be more concerned	4	study or helped design a study where there
5	with being specific to this case how to	5	was a focus of trying to determine whether
6	deal with issues of recall bias?	6	or not a particular risk factor or
7	A. No, I don't agree.	7	combination of risk factors were are
8	Q. Okay. All right. Now,	8	responsible for ovarian cancer?
9	looking at your CV read as a whole, and I	9	A. Again, I don't recall any
10	did read it, I can't say I understood every	10	studies I have been involved in related to
	•	11	ovarian cancer, so, therefore, the answer
	seems the focus in your academic work is	12	to your question would be no.
13	with imaging; is that correct?	13	Q. Do you have any articles
14	A. I think there are multiple	14	which in any way bear on any issue relating
15	areas that are and have been the focus of	l	to talc?
16	my research. Imaging has certainly always	16	A. I'm pretty sure I don't have
	been there. Medical imaging specifically.	17	
	With applications, I mean, breast cancer	18	Q. Prior to this case about a
	has been a sort of central theme of my	19	month ago, had you ever read literature
	research over many years, in particular		relating to talc and ovarian cancer?
	related to medical imaging too, but also	21	A. I don't recall reading that.
	beyond medical imaging and the study of	22	Q. You don't recall reading any?
	dementia as well.	23	A. Or seeing anything, yeah, no,
24	Q. Okay.	l	I don't.

1	Page 90	1	Page 92
1	Q. So the first time you ever	$\begin{array}{ c c }\hline 1\\2 \end{array}$	issues or do you not know? A. Well, I know from what I've
	saw any article relating to talc and	_	
1	ovarian cancer was on the 20th of May 2024		seen in relation to this report that
	when the lawyers contacted you in this		there's also uterine cancer and breast
5	case?		cancer was considered for the Sister Study.
6	MS. LEHMAN: Object to form.		I believe the question there was more
7	THE WITNESS: So I can't be		the questionnaires have been more extensive
8	100 percent sure. I don't know if		than just looking at talc use, but I
9	I saw any news articles on it,		wouldn't say that I'm knowledgeable on
10	sometimes when I'm reading a		everything that has come out.
11	newspaper, but specifically an	11	Q. Yeah. I mean, just to be
12	academic article on the specifics		clear, you are not familiar other than
13	of talc use related to ovarian		the talc and ovarian cancer papers
14	cancer, I think the answer is no.		identified in your report, you have not
_	BY MR. TISI:	15	sought to familiarize yourself with the
16	Q. Okay. And so just to be		papers and body of literature that have
17	100 percent clear so we have a clear answer		come out of the Sister Study, true?
	to this question, before May 20, 2024, you	18	A. I mean, I sought out papers
	have never read an academic article		related to the Sister Study, because
	relating to the relationship between	20	they're related to O'Brien (2024) and my
l .	ovarian cancer and talcum powder, true?	21	Q. Right.
22	A. I don't recall reading any	22	A. And I was to independently
	such paper at any time.		review that. So to the extent that they
24	Q. Okay. Prior to this case,	24	were related to O'Brien (2024) is what I
	Page 91		Page 93
1	have you read any literature coming out of		was seeking out.
	the Sister cohort study?	2	Q. Doctor, this isn't a trick
3	A. I don't believe so.	3	question. I'm asking you other than the
4	Q. Okay. Do you understand that	4	papers that are identified in your report,
	in terms of cohorts and the study of cancer		have you sought to familiarize yourself
	that the Sister Study is an important		generally with the Sister Study and the
	study?		research that has come out of it?
8	MS. LEHMAN: Object to form.	8	MS. LEHMAN: Objection.
9	BY MR. TISI:	9	THE WITNESS: I think the
10	Q. Well, let me rephrase the	10	materials cited in my report that
	question. Do you understand that amongst	11	that's my that was a good faith
1	people who actually study cancer risk	12	attempt to representing everything
1	factors that the Sister Study cohort is a	13	I reviewed. I may have gone to the
	particularly important cohort?	14	website for the Sister Study, but I
15	MS. LEHMAN: Object to form.	15	don't recall for sure.
16	THE WITNESS: I don't know	16	BY MR. TISI:
17	what defines whether something is	17	Q. Have you ever written on
18	particularly important versus not		imputation, either single or multiple, in a
19	particularly important, but there	19	methods paper? In other words, not as part
20	are clearly multiple papers about	20	of a methods of a study, but in terms of
21	the Sister Study.	21	talking about that imputation as a method
22	BY MR. TISI:		for dealing with missingness?
23	Q. Right. And not just on talc	23	A. Yes.
0.4	and ovarian cancer, it's on various other	24	Q. Okay. Could you identify

	Page 94		Page 96
1	where you actually talk about multiple	1	The last one was about methods and now
	imputation or single imputation as a method	2	you're asking just about whether I address
3	for dealing with missingness?	3	any of the issues related to
4	A. So it's in my papers related	4	Q. No, no, what I'm asking,
5	to the Bayesian reconstruction of magnetic	l	let's stay focused on imputation for
	resonance	6	dealing with missingness. Okay. You know,
7	THE STENOGRAPHER: Wait a	l	I looked at I read your report, I looked
8	minute, the what reconstruction?		at your the things that you've cited,
9	THE WITNESS: Bayesian,		your footnotes, and I don't see any of your
10	B-A-Y-E-S-I-A-N.		own literature used to support any of the
11	BY MR. TISI:	11	
12	Q. And maybe I wasn't clear	l	missing imputation by chain equations or
13	about my question. My question was not		MICE. Or missing not at random or missing
	whether or not you discussed it in the	l .	completely at random or missing at random,
15	•		MCAR, I've not seen any of your own
	looking at something else		research cited in support of your opinions,
17	A. No, it's developing missing		you've cited other people, but I have not
	data, missing data approach.		seen your own. Have you had any papers
19	Q. Okay.		which deal directly with the issues of
20	A. It's developing a method.		imputation that you spend the majority of
21	It's not I'm just not implementing a		your report dealing with?
	method.	22	A. Again, there are papers that
23	Q. And can you tell me which of	23	have something related to imputation in
24	your articles in your CV that was? And I	24	them. I didn't choose them as they're
	Page 95		Page 9'
1	don't want to take forever to do it, but if	1	not the most appropriate references to cite
2	you can identify which one or ones, that		for supporting my opinions.
3	would be helpful.	3	Q. That's what I'm trying to get
4	A. So this would be I'm going	4	
5	back a ways. So publication 32 and I think	5	opinions you're offering in this case about
6	publication 29. So these used the idea of	6	imputation, you have not written
7	Bayesian methods for imputing data. So	7	independently in the academic literature
8	you're imputing data to higher resolution	8	about those methods specifically?
9	of the image.	9	MS. LEHMAN: Object to form.
10	Q. Okay. So the reason I'm	10	THE WITNESS: I think
11	asking, Doctor, and I'm not playing hide	11	specifically I have written about
12	and seek with you here on this, you don't	12	those methods, to what extent is
13	cite any of your published literature in	13	another question. And I would have
14		14	spend a lot of time going through
	appropriateness of the imputation	15	my papers to figure that out.
	methodology used by these authors. Have	16	BY MR. TISI:
	you ever addressed in any of your published	17	Q. But none pop in your mind
	work any of the issues that you are opining		right now?
	on in this case?	19	MS. LEHMAN: Object to form.
20	A. I mean, I definitely have	20	THE WITNESS: I mean, I know
21	addressed questions about imputation in	21	there are papers in there that
	publications. I would struggle to pinpoint	22	consider missing data. I mean,
	which ones, but this you're now asking a	23	that's just and these are
24	completely different question, I believe.	24	statistical methods, some of them

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1	have been around for a long, long	1	Q. It's throughout your report.
2	time and bias, as an expert	2	So let me ask you this opinion. Is it your
3	biostatistician, I understand those		opinion that imputation, multiple
4	methods and when they are		imputation let me rephrase it another
5	appropriate to be used in different	5	•
6	problems.	6	Is it multiple imputation a
7	•		recognized statistical method to deal with
8			missing data in an epidemiologic study?
9	26 27	9	A. Multiple imputation is a
1	question is have you ever written on them		recognized approach to dealing with missing
1	generally in a methods paper?		data, but it depends on the missing data
12	• • •		itself to what extent it's appropriate to
13			use it.
1	see any I don't see any the reason	14	Q. Understood. And we're going
	why I'm saying that, Doctor, is I don't see		to talk about that, but if anyone were to
	you citing any of your own academic		read your report and say, yeah, that
	research in support of your opinions. And	17	multiple imputation is like voodoo where
	I would have assumed that if you had	18	people are just using fancy terms to guess
	written on the topic, you would have cited		at data, that's not true, is it?
	your own research and you didn't. So can	20	MS. LEHMAN: Object to form.
1	you explain that?	21	THE WITNESS: I would say in
22	· -	22	general, multiple imputation when
23	3	23	applied properly, no, it's not
24		24	voodoo, but, however, I think how
	Page 99		Page 101
1	not make that assumption of	1	it's applied here, if you want to
2	somebody that just because they've	2	use a pejorative term like you did,
3	written on a topic that they're	3	you might say it is kind of voodoo,
4	going to prioritize writing	4	because it's a level of making
5	their referencing their paper.	5	things up here, yeah.
6		6	BY MR. TISI:
7	don't know, but I don't think of it	7	Q. But, generally speaking, and
8	as being a good academic approach.	8	I'm going to move to strike the
9	As an academic, I want to cite the	9	nonresponsive part of your answer, because
10			we're going to talk about what the authors
11	is I'm trying to explain.	11	
12	BY MR. TISI:	12	say that multiple imputation is not a
13	Q. And, for example, one of	13	recognized statistical method for dealing
14	the well, we'll talk about that later,	14	
1	never mind.	15	true?
1	You've called imputation	16	MS. LEHMAN: Object to form.
16	Tou ve cance imputation		Asked and answered.
16 17		17	risked and answered.
17		17 18	THE WITNESS: Multiple
17	throughout this report a guess. It's not a guess, is it?		
17 18 19	throughout this report a guess. It's not a guess, is it?	18	THE WITNESS: Multiple
17 18 19 20	throughout this report a guess. It's not a guess, is it? A. I would like you to point me to where I refer to imputation as a	18 19	THE WITNESS: Multiple imputation is one recognized technique for approaching what is
17 18 19 20	throughout this report a guess. It's not a guess, is it? A. I would like you to point me to where I refer to imputation as a guess	18 19 20 21	THE WITNESS: Multiple imputation is one recognized
17 18 19 20 21	throughout this report a guess. It's not a guess, is it? A. I would like you to point me to where I refer to imputation as a guess Q. Let them	18 19 20 21	THE WITNESS: Multiple imputation is one recognized technique for approaching what is the problem of having missing data.

	Page 102		Page 104
	community as a way not to guess at data,		designed a program in health data science
2	correct?		that has a large component about missing
3	MS. LEHMAN: Object to form.	l	data. So in that sense, I've written about
4	BY MR. TISI:	l	it, but if you're talking about in academic
5	Q. It's a method that		peer-reviewed publications, I haven't
6	A. That is not that is not	1 1	provided a commentary on that.
7	correct.	7	Q. Okay. Have you are you
8	Q. Okay. Let me rephrase the		familiar with any literature that would
9	question. It's a method for using existing		support your position that multiple
	data to predict what the answer would have	l	imputation would not be used for the
11	been had the question been answered, true?		primary predictor?
12	A. No.	12	A. I don't recall any specific
13	Q. Okay. Tell me what it does.	13	document offhand. This would just be sort
14	A. What it does is the idea is	14	of, like, conventional sort of
15	you have data, the dataset is incomplete in	15	biostatistical thinking, based on my
16	some way, and you then have to make a	16	experience and knowledge as a
17	decision to make a trade-off between is it	17	biostatistician. I'm sure it's discussed
18	worth trying to do some kind of imputation	18	in textbooks, but I can't point you to a
19	with the data, but at the same time, you	19	specific textbook.
20	want to guard that you're not doing more	20	Q. And you can't think of a
	harm than good when you do the imputation.	21	textbook or an article which talks about
22	Q. Right.	22	when the boundary line of when you use
23	A. So you were talking specific		multiple imputation with respect to the
24	you mentioned imputing something		variables that you're studying, true?
		l	
	Page 103		Page 105
1	Page 103 specific I think related to, like, the	1	A. Oh, no, I can. I mean,
2	specific I think related to, like, the	2	A. Oh, no, I can. I mean,
3	specific I think related to, like, the primary predictor of exposure or something.	2 3	A. Oh, no, I can. I mean, Rubin's book on multiple imputation
2 3 4	specific I think related to, like, the primary predictor of exposure or something. But here where multiple imputation can help	3 4	A. Oh, no, I can. I mean, Rubin's book on multiple imputation certainly talks about when, like, things
2 3 4 5	specific I think related to, like, the primary predictor of exposure or something. But here where multiple imputation can help in particular is when you have variables	2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	A. Oh, no, I can. I mean, Rubin's book on multiple imputation certainly talks about when, like, things with respect to being missing completely,
2 3 4 5 6	specific I think related to, like, the primary predictor of exposure or something. But here where multiple imputation can help in particular is when you have variables that are not providing much information	2 3 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	A. Oh, no, I can. I mean, Rubin's book on multiple imputation certainly talks about when, like, things with respect to being missing completely, at random, missing at random, missing not
2 3 4 5 6 7	specific I think related to, like, the primary predictor of exposure or something. But here where multiple imputation can help in particular is when you have variables that are not providing much information directly to the primary outcome, but you	2 3 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	A. Oh, no, I can. I mean, Rubin's book on multiple imputation certainly talks about when, like, things with respect to being missing completely, at random, missing at random, missing not at random, other textbooks in the field
2 3 4 5 6 7 8	specific I think related to, like, the primary predictor of exposure or something. But here where multiple imputation can help in particular is when you have variables that are not providing much information directly to the primary outcome, but you don't want to throw the whole set of	2 3 4 5 6 6 7 8	A. Oh, no, I can. I mean, Rubin's book on multiple imputation certainly talks about when, like, things with respect to being missing completely, at random, missing at random, missing not at random, other textbooks in the field surely talk about that too.
2 3 4 5 6 7 8 9	specific I think related to, like, the primary predictor of exposure or something. But here where multiple imputation can help in particular is when you have variables that are not providing much information directly to the primary outcome, but you don't want to throw the whole set of information away from a subject, and so	2 : 3 : 4 : 5 : 6 : 7 : 8 : 9 :	A. Oh, no, I can. I mean, Rubin's book on multiple imputation certainly talks about when, like, things with respect to being missing completely, at random, missing at random, missing not at random, other textbooks in the field surely talk about that too. Q. Right. But that book, using
2 3 4 5 6 7 8 9	specific I think related to, like, the primary predictor of exposure or something. But here where multiple imputation can help in particular is when you have variables that are not providing much information directly to the primary outcome, but you don't want to throw the whole set of information away from a subject, and so you, you kind of, it becomes a trade-off	2 : 3 : 4 : 5 : 6 : 7 : 8 : 9 : 10 : 10 : 10 : 10 : 10 : 10 : 10	A. Oh, no, I can. I mean, Rubin's book on multiple imputation certainly talks about when, like, things with respect to being missing completely, at random, missing at random, missing not at random, other textbooks in the field surely talk about that too. Q. Right. But that book, using that as an example, doesn't say that you
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2 3 4 5 6 7 8 9 10 11 12	specific I think related to, like, the primary predictor of exposure or something. But here where multiple imputation can help in particular is when you have variables that are not providing much information directly to the primary outcome, but you don't want to throw the whole set of information away from a subject, and so you, you kind of, it becomes a trade-off where you say I would risk the imputation of that data point in order to get the extra bit of data	2 : 3 : 4 : 5 : 6 : 7 : 8 : 9 : 10 : 11 : 12 : 13	A. Oh, no, I can. I mean, Rubin's book on multiple imputation certainly talks about when, like, things with respect to being missing completely, at random, missing at random, missing not at random, other textbooks in the field surely talk about that too. Q. Right. But that book, using that as an example, doesn't say that you only you do not use multiple imputation with respect to the primary outcome that you're studying, true?
2 3 4 5 6 7 8 9 10 11 12 13 14	specific I think related to, like, the primary predictor of exposure or something. But here where multiple imputation can help in particular is when you have variables that are not providing much information directly to the primary outcome, but you don't want to throw the whole set of information away from a subject, and so you, you kind of, it becomes a trade-off where you say I would risk the imputation of that data point in order to get the extra bit of data Q. But you don't	2 3 4 5 6 7 8 9 10 11 12 13 14 14 1	A. Oh, no, I can. I mean, Rubin's book on multiple imputation certainly talks about when, like, things with respect to being missing completely, at random, missing at random, missing not at random, other textbooks in the field surely talk about that too. Q. Right. But that book, using that as an example, doesn't say that you only you do not use multiple imputation with respect to the primary outcome that you're studying, true? A. I would just simply say
2 3 4 5 6 7 8 9 10 11 12 13 14 15	specific I think related to, like, the primary predictor of exposure or something. But here where multiple imputation can help in particular is when you have variables that are not providing much information directly to the primary outcome, but you don't want to throw the whole set of information away from a subject, and so you, you kind of, it becomes a trade-off where you say I would risk the imputation of that data point in order to get the extra bit of data Q. But you don't A of everything on that	2 : 3 : 4 : 5 : 6 : 7 : 8 : 9 : 10 : 11 : 12 : 13 : 14 : 15 : 15 : 15 : 17 : 18 : 17 : 18 : 18 : 18 : 18 : 18	A. Oh, no, I can. I mean, Rubin's book on multiple imputation certainly talks about when, like, things with respect to being missing completely, at random, missing at random, missing not at random, other textbooks in the field surely talk about that too. Q. Right. But that book, using that as an example, doesn't say that you only you do not use multiple imputation with respect to the primary outcome that you're studying, true? A. I would just simply say that's a qualified true, but there is no
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	specific I think related to, like, the primary predictor of exposure or something. But here where multiple imputation can help in particular is when you have variables that are not providing much information directly to the primary outcome, but you don't want to throw the whole set of information away from a subject, and so you, you kind of, it becomes a trade-off where you say I would risk the imputation of that data point in order to get the extra bit of data Q. But you don't A of everything on that individual. But that's usually the thinking on multiple imputation, not on trying to impute your most important predictors when there's a lot of missing data.	2 : 3 : 4 : 5 : 6 : 7 : 8 : 9 : 10 : 11 : 12 : 13 : 14 : 15 : 16 : 17 : 18 : 19 : 19 : 19 : 19 : 19 : 19 : 19	A. Oh, no, I can. I mean, Rubin's book on multiple imputation certainly talks about when, like, things with respect to being missing completely, at random, missing at random, missing not at random, other textbooks in the field surely talk about that too. Q. Right. But that book, using that as an example, doesn't say that you only you do not use multiple imputation with respect to the primary outcome that you're studying, true? A. I would just simply say that's a qualified true, but there is no sort of black and white boundary on when you are overdoing these things versus not overdoing these things. There is, like I said originally, a trade-off between what you want to impute and what the benefits
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	specific I think related to, like, the primary predictor of exposure or something. But here where multiple imputation can help in particular is when you have variables that are not providing much information directly to the primary outcome, but you don't want to throw the whole set of information away from a subject, and so you, you kind of, it becomes a trade-off where you say I would risk the imputation of that data point in order to get the extra bit of data Q. But you don't A of everything on that individual. But that's usually the thinking on multiple imputation, not on trying to impute your most important predictors when there's a lot of missing data. Q. So is there any well,	2 : 3 : 4 : 5 : 6 : 7 : 8 : 9 : 10 : 11 : 12 : 13 : 14 : 15 : 16 : 17 : 18 : 19 : 20 : 21	A. Oh, no, I can. I mean, Rubin's book on multiple imputation certainly talks about when, like, things with respect to being missing completely, at random, missing at random, missing not at random, other textbooks in the field surely talk about that too. Q. Right. But that book, using that as an example, doesn't say that you only you do not use multiple imputation with respect to the primary outcome that you're studying, true? A. I would just simply say that's a qualified true, but there is no sort of black and white boundary on when you are overdoing these things versus not overdoing these things. There is, like I said originally, a trade-off between what you want to impute and what the benefits might be.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	specific I think related to, like, the primary predictor of exposure or something. But here where multiple imputation can help in particular is when you have variables that are not providing much information directly to the primary outcome, but you don't want to throw the whole set of information away from a subject, and so you, you kind of, it becomes a trade-off where you say I would risk the imputation of that data point in order to get the extra bit of data Q. But you don't A of everything on that individual. But that's usually the thinking on multiple imputation, not on trying to impute your most important predictors when there's a lot of missing data. Q. So is there any well, first of all, have you ever written on how	2 : 3 : 4 : 5 : 6 : 7 : 8 : 9 : 10 : 11 : 12 : 13 : 14 : 15 : 16 : 17 : 18 : 19 : 20 : 21 : 22 : 1	A. Oh, no, I can. I mean, Rubin's book on multiple imputation certainly talks about when, like, things with respect to being missing completely, at random, missing at random, missing not at random, other textbooks in the field surely talk about that too. Q. Right. But that book, using that as an example, doesn't say that you only you do not use multiple imputation with respect to the primary outcome that you're studying, true? A. I would just simply say that's a qualified true, but there is no sort of black and white boundary on when you are overdoing these things versus not overdoing these things. There is, like I said originally, a trade-off between what you want to impute and what the benefits might be. A common practice though is

24 influencing your results, that you will run

A.

To the extent where -- I have

24

1	Page 106		Page 108
1	with and without imputation as a	1	MS. LEHMAN: Objection. Asked
1	sensitivity analysis and check that your	2	and answered.
	results have not been greatly affected by	3	THE WITNESS: Those methods
	your imputation approach. That's a common	4	applied in certain situations have
5	practice and	5	been criticized many times over.
6	Q. Let me just give I'm kind	6	BY MR. TISI:
7	of jumping ahead here, but this let me ask	7	Q. Okay. Well, you tell me who,
8	you this. The authors were very clear up	8	
	front as to why they were using the	9	A. I didn't say anybody
	imputation methods to try to predict when		criticized O'Brien (2024). I said that
	people were actually women were actually		those methods when used inappropriately
	using tale when that information was		have been criticized many times over.
	missing in the follow-up questionnaire,	13	Q. So listen to my question, if
	true?		you don't mind, okay? This paper was
15	I'm not asking you whether		published in the peer-reviewed journal on
	it was right or wrong, I'm asking you, they		May 15 by NIH scientists; is that true?
	laid it out there for the whole world to	17	MS. LEHMAN: Object to form.
	see, correct?	18	THE WITNESS: My understanding
19	A. They basically said that they	19	is that the authors of the paper
	were going to impute exposure status, yes.	20	work at the NIH. My understanding
21	Q. Correct. And that went	21	is that this paper was published
1	through peer review, true?	22	and so and that it's a
23	A. I mean, it did. I'm amazed	23	peer-reviewed journal, so.
24	it did. I can't understand how they	24	1 3
	Page 107		Page 109
1	must have not had biostatistical review,	1	BY MR. TISI:
2	because that was amazing that that got	2	Q. So the answer to my
3	through without	3	question
4	Q. Okay. And nobody has ever	4	A. Peer reviewed is not a
1 7		-	71. I cel levie wed is not a
		5	perfect process, so
5			
5 6	and we're going to talk about this, but to	5	perfect process, so
5 6 7	and we're going to talk about this, but to your knowledge, not a single scientist	5 6 7	perfect process, so Q. The answer to my question
5 6 7	and we're going to talk about this, but to your knowledge, not a single scientist outside of this litigation has criticized	5 6 7 8	perfect process, so Q. The answer to my question was, yes, it was published by NIH
5 6 7 8	and we're going to talk about this, but to your knowledge, not a single scientist outside of this litigation has criticized in any way the imputation used by these scientists, true? MS. LEHMAN: Object to form.	5 6 7 8	perfect process, so Q. The answer to my question was, yes, it was published by NIH scientists on May 15 in a peer-reviewed
5 6 7 8 9	and we're going to talk about this, but to your knowledge, not a single scientist outside of this litigation has criticized in any way the imputation used by these scientists, true?	5 6 7 8 9	perfect process, so Q. The answer to my question was, yes, it was published by NIH scientists on May 15 in a peer-reviewed journal, true? MS. LEHMAN: Objection. Asked and answered.
5 6 7 8 9 10 11 12	and we're going to talk about this, but to your knowledge, not a single scientist outside of this litigation has criticized in any way the imputation used by these scientists, true? MS. LEHMAN: Object to form. THE WITNESS: No, that's not true. I mean, people have	5 6 7 8 9 10 11 12	perfect process, so Q. The answer to my question was, yes, it was published by NIH scientists on May 15 in a peer-reviewed journal, true? MS. LEHMAN: Objection. Asked and answered. THE WITNESS: Yes, it was
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5 6 7 8 9 10 11 12 13 14 15 16	and we're going to talk about this, but to your knowledge, not a single scientist outside of this litigation has criticized in any way the imputation used by these scientists, true? MS. LEHMAN: Object to form. THE WITNESS: No, that's not true. I mean, people have criticized imputation approaches being applied inappropriately often. BY MR. TISI:	5 6 7 8 9 10 11 12 13 14 15 16	perfect process, so Q. The answer to my question was, yes, it was published by NIH scientists on May 15 in a peer-reviewed journal, true? MS. LEHMAN: Objection. Asked and answered. THE WITNESS: Yes, it was published in a peer-reviewed journal. BY MR. TISI: Q. Okay. And from May 15, it is
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1	D 110		D 112
	Page 110 peer-review process so quickly	1	Page 112 have been written regarding talc and
2	between the paper being published		ovarian cancer from the Sister Study
3	and now. Academic literature		cohort, correct?
			•
4	doesn't tend to move that fast.	4	A. Yes.
_	BY MR. TISI:	5	Q. And you refer to several of
6	Q. Okay. But so the answer to	6	them, one would be Gonzalez 2016, which
	the question would be no, you're not aware		would have been about six and a half years
	of anybody outside of being hired by	8	after the study was commenced and that's
	Johnson & Johnson who has criticized this		Exhibit No. 18 in your book.
	paper in a conference, at a meeting, in a	10	MS. LEHMAN: Object to form.
	conference call, in a letter to the editor,	11	THE WITNESS: I think it's a
	in an editorial, in a paper, anywhere other	12	little bit longer than that, right,
	than Johnson & Johnson's paid experts,	13	2016 from 2003, that would be about
14	true?	14	13 years later.
15	MS. LEHMAN: Object to form.	15	
16	THE WITNESS: I'm just I	16	(Gonzalez Study marked
17	don't I have not seen anything	17	Kornak Exhibit 18 for
18	myself. I just independently	18	identification.)
19	reviewed the paper and my opinions	19	
20	are that it's flawed and	20	BY MR. TISI:
21	unreliable.	21	Q. Right. But they used, they
22	BY MR. TISI:	22	used data that was about 6.6 years in
23	Q. Okay. Now, let's talk about	23	follow-up, do you remember?
24	those NIH authors in which you said you are	24	MS. LEHMAN: Object to form.
	Page 111		Page 113
1	not criticizing them in particular, true?	1	THE WITNESS: Well, they had a
2	A. I am not criticizing them	2	median follow-up of 6.6 years.
3	personally in any way.	3	BY MR. TISI:
4	Q. Well, professionally, are you	4	Q. Okay. And you also
5	criticizing them?	5	A. Something like that.
6	MS. LEHMAN: Object to form.	6	Q looked at a pooled
7	THE WITNESS: Well, I'm	7	study by and O'Brien herself was part of
8	criticizing them professionally in	8	the Gonzalez study in 2016, correct?
9	terms of this work that in terms	9	A. Yes, she's the second author
10	of the paper that they wrote, yes.	10	on that paper.
11	BY MR. TISI:	11	Q. And there was also a pooled
12	Q. All right. So let's go, if	12	study of cohorts, O'Brien (2020), which is
13	you don't mind going to Exhibit No. 8,	13	in your book as Exhibit 25?
14	which is O'Brien (2024).	14	A. Yes, that's correct.
15	A. Yeah, I'm there.	15	
16	Q. Now, you know from reading	16	(O'Brien (2020) Study marked
17	the paper that this is a study where almost	17	Kornak Exhibit 25 for
	over 50,000 people, we talked about this,	18	identification.)
	over 50,000 women were enrolled and the	19	
20	study is about 15 years old, correct?	20	BY MR. TISI:
∠∪	A. It seems like the study	21	Q. All right. O'Brien is also
21			-
21	started collecting data in 2003, so I would	22	on that study, correct?
21 22	started collecting data in 2003, so I would say that's, like, 22 years old.	22 23	on that study, correct? A. Yes, she's the first author

	Page 114	Page 116
1	Q. As is Dale Sandler. Do you	1 Exhibit 22 for identification.)
$\frac{1}{2}$	•	2
3	A. Yes.	3 BY MR. TISI:
4	Q. Okay. Nicolas Wentzensen?	4 Q. Okay. And Dale Sandler is
5	A. Yes.	5 part of that study as well, correct?
6	Q. And Holly Harris. Do you see	6 A. Yeah, I see his name.
7	her name?	7 Q. It's actually a she.
8	A. Yes.	-
		Ţ
9	Q. Clarice Weinberg?A. Yes.	9 Q. That's okay. And, of course,
10		10 there's O'Brien (2024), Exhibit No. 8 where
11	Q. She's a biostatistician,	11 these same authors appear again, true?
	correct?	12 A. That's true.
13	A. I don't know.	13 Q. Okay. And in addition to
14	Q. Okay. Now, there's also a	14 this, okay, O'Brien has written other
15	study on that touches on talc recall	15 things on the talc ovarian cancer
	bias, which is O'Brien (2023), correct?	16 association, for example, response to
17	A. Yes.	17 letter to the editors that we just talked
18	Q. And that's Exhibit No. 16.	18 about, Exhibit No. 25 in your book,
19	A. Yes.	19 correct?
20		A. The responses you said are
21	(O'Brien (2023) marked	21 Exhibit 25 or is that a different
22	Kornak Exhibit 16 for	22 Q. No, Exhibit No. 25.
23	identification.)	A. I received Exhibit No. 25 as
24		24 a paper.
	Page 115	_
1	BY MR. TISI:	1 Q. I'm sorry. I'm sorry,
1 2	BY MR. TISI: Q. Okay. It's entitled	1 Q. I'm sorry. I'm sorry, 2 Exhibit No. 26. And she wrote a response
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	BY MR. TISI: Q. Okay. It's entitled "Douching and genital talc use: Patterns of use and reliability of self-reported exposure," correct? A. Correct. Q. And the authors on that are, again, Dr. O'Brien, Dr. Wentzensen, and Dr. Sandler, correct? A. Yes. Q. Okay. These are the same authors who appear over and over in these studies publishing the peer-reviewed literature coming out of the Sister Study, correct? A. Yes. Q. Okay. The next one is a study of personal care product mixtures in different cancers by Chang, Exhibit 22, in	1 Q. I'm sorry. I'm sorry, 2 Exhibit No. 26. And she wrote a response 3 to letters that were written to her about 4 O'Brien (2020), correct it would be on the 5 second page of that document. Third page, 6 I'm sorry. 7 A. Yes. 8 9 (O'Brien Response to Letter 10 to the Editor marked Kornak 11 Exhibit 26 for identification.) 12 13 BY MR. TISI: 14 Q. Okay. So it's fair to say 15 that these authors from the NIH have 16 published a lot of literature of talc and 17 ovarian cancer coming out of the Sister 18 Study, true? 19 MS. LEHMAN: Object to form.
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. TISI: Q. Okay. It's entitled "Douching and genital talc use: Patterns of use and reliability of self-reported exposure," correct? A. Correct. Q. And the authors on that are, again, Dr. O'Brien, Dr. Wentzensen, and Dr. Sandler, correct? A. Yes. Q. Okay. These are the same authors who appear over and over in these studies publishing the peer-reviewed literature coming out of the Sister Study, correct? A. Yes. Q. Okay. The next one is a study of personal care product mixtures in different cancers by Chang, Exhibit 22, in your book. If you could bring up Exhibit 22, Jeff.	1 Q. I'm sorry. I'm sorry, 2 Exhibit No. 26. And she wrote a response 3 to letters that were written to her about 4 O'Brien (2020), correct it would be on the 5 second page of that document. Third page, 6 I'm sorry. 7 A. Yes. 8 9 (O'Brien Response to Letter 10 to the Editor marked Kornak 11 Exhibit 26 for identification.) 12 13 BY MR. TISI: 14 Q. Okay. So it's fair to say 15 that these authors from the NIH have 16 published a lot of literature of talc and 17 ovarian cancer coming out of the Sister 18 Study, true? 19 MS. LEHMAN: Object to form. 20 THE WITNESS: They have 21 published multiple papers that use

Page 118	Page 120
1 them before May 20, 2024, true?	1 and I assume they are qualified
2 A. I believe that is true.	2 researchers in what they're working
3 Q. Okay.	3 on.
4 A. But, anyway sorry.	4 BY MR. TISI:
5 Q. Would you expect these	5 Q. Well, do you have any
6 people, these NIH scientists, who have been	6 evidence, as we sit here today, Dr. Kornak,
7 publishing from the Sister Study on talc	7 that any of these NIH scientists who
8 and ovarian cancer for going on 20 years to	8 drafted or were responsible for drafting
9 know and understand their cohort and their	9 O'Brien (2024) or any of the prior studies
10 data?	10 have been have received a penny from any
	11 side in this talc litigation?
MS. LEHMAN: Object to form. THE WITNESS: Well, I don't	12 A. I don't know if whether
·	
know that they have been publishing	13 they have or they haven't. I don't know.
for 20 years. I know that 2016,	14 Q. Well, that's actually a
since then for sure, they have been	15 different question. Do you have any
16 publishing on this.	16 evidence, as you sit here today, that they 17 have received
17 BY MR. TISI:	
18 Q. Okay.	
A. So but what was the question	Q even a penny in money from
20 again?	20 lawyers involved in talc litigation?
Q. Well, let me ask you this.	MS. LEHMAN: Object to form.
22 Would you expect them to know and	Asked and answered.
23 understand the data, they have been working	23 THE WITNESS: I don't have any
24 with this data for a long time, true?	such evidence.
Page 119 1 A. They have been working with	Page 121 1 BY MR. TISI:
2 the data at baseline for a while.	2 Q. Okay. Do you have any
3 Q. And they have been crafting	2 Q. Okay. Do you have any
	3 information that any of these NIH
	3 information that any of these NIH 4 scientists who published O'Brien (2024)
4 the follow-up questionnaires, true?	4 scientists who published O'Brien (2024)
4 the follow-up questionnaires, true?5 A. I don't know if they were	4 scientists who published O'Brien (2024)5 have been retained as a litigation
 4 the follow-up questionnaires, true? 5 A. I don't know if they were 6 involved in crafting the follow-up 	4 scientists who published O'Brien (2024)5 have been retained as a litigation6 consultant in any fashion?
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	D 100		D 124
1	Q. Do you have any reason to	1	Page 124 clearly here in the paper that there are
	doubt their independence when drafting		problems with what they're relying on
3			this forward retrospective analysis when
4	-		they have clean prospective data that they
5	•		could be focused on.
	evidence and, you know, I don't know these	6	Q. And let's talk about
7	•	7	A. And they mentioned, they said
8	• •	8	they relegated that down into the appendix.
9	· ·	9	Q. Okay. We're going to talk
	their mind to publish a paper where the	10	about that. We're going to talk about what
	outcome was that talc was associated with	l .	they did, but I'm going to move to strike
12	ovarian cancer as before they even		your answer. Do you have any
	started the study, that would be there	13	THE STENOGRAPHER: You froze.
	would be no evidence for that, right?	14	BY MR. TISI:
15	MS. LEHMAN: Object to form.	15	Q. I move to strike your answer
16	THE WITNESS: Well, I would	16	as nonresponsive. Do you have any evidence
17	say, no, that I mean, this	17	that you can point to that these that
18	there is kind of evidence to that	18	these NIH scientists who have never been
19	in a way. I mean, you're kind of	19	paid in litigation, to your knowledge,
20	getting putting me in a	20	engaged in an analysis with an intent to
21	hypothetical position about what's	21	find an association where none exists?
22	in the mind	22	MS. LEHMAN: Object to form.
23	BY MR. TISI:	23	Asked and answered.
24	Q. Well, it's not	24	THE WITNESS: Just that,
	Page 123		Page 125
	hypothetical	1	again, I don't know their motives,
2		2	but they produced a paper which
3		3	appears to do as much juggling as
4	· 1	4	possible to try to find a result
5		5	where none really exists.
6	\mathcal{E}	6	BY MR. TISI:
	have any	7	Q. Let's go to Exhibit No. 10,
8	•		if we could, in your binder. This is the
9			NIH biography of Dale Sandler. She's a
10	,	l	senior investigator in the epidemiology
11	· ·	11	branch, chronic disease, epidemiology group
	I was saying before I lose my train of	12	at the National Institute of Environmental
	thought		Health Sciences of the NIH.
14		14	Do you see that?
	move to strike.	15	A. Yes.
16	1	16	(Dolo Condon DhD, Die
	paper that seems to go in a different	17	(Dale Sander, PhD, Bio
	direction to where they were their	18	marked Kornak Exhibit 10 for
	previous papers. They were using flawed	19	identification.)
1 20	approaches and so, you know, I don't know what their exact reason is for doing this,	20	DV MD TICL
		41	BY MR. TISI:
21	_	22	O Olyan Thatla a most-
21 22	whether they just wanted to get another	22	Q. Okay. That's a pretty
21 22 23	_	23	Q. Okay. That's a pretty that's a pretty important position, do you agree?

	Page 126		Page 128
1	A. You know, I'm not familiar	1	good for her that she got an award.
	with NIH internal hierarchy as to what	2	Again, I'm not in any way doubting
3	•	3	her credentials, but I don't know
	reason to doubt her credentials.	4	the specifics of how these awards
5	Q. Okay. If you go to page 3,	5	are made. But, you know, great.
	it says "Dale Sandler, heads the Chronic	6	
1	Disease Epidemiology group and has been	7	Q. If you had gotten her if
8		'	you had gotten an application for her
1	Division of Intramural Research at NIEHS		medical for your school at UCSF, would
	since 2003."		you have given it a look?
11	Do you see that?	11	A. If we were hiring and, sure,
12	A. Yes.	l	her CV would be considered along with all
13	Q. Is that, if you were to get		CVs that were or all applications that
	that as an application to your school, you		were made for a position. But, yes, she
	would consider that to be a pretty		would receive consideration and she has,
1	impressive credential, true?		presumably, she has the qualifications for
17	MS. LEHMAN: Object to form.		certain positions.
18	THE WITNESS: I mean, you	18	Q. Let's look at Katie O'Brien,
19	know, it seems to be a potentially	l	Exhibit No. 8. By the way, actually, never
20	important position. I don't know	l	mind. Do you see
21	the internal workings of, like, the	21	A. You said Exhibit No. 8.
22	NIH hierarchy, but she has	22	Q. Exhibit No. 9, excuse me.
23	BY MR. TISI:	23	A. Go ahead.
24	Q. It further states that she	24	
_			
	Page 127		Page 129
1	I'm sorry, go ahead.	1	(Katie O'Brien, PhD, Bio
2	I'm sorry, go ahead. A. No, I'm just going to give	2	(Katie O'Brien, PhD, Bio marked Kornak Exhibit 9 for
3	I'm sorry, go ahead. A. No, I'm just going to give you an example within UCSF, you can have	l	(Katie O'Brien, PhD, Bio
2 3 4	I'm sorry, go ahead. A. No, I'm just going to give you an example within UCSF, you can have people that head groups and it's really	2 3 4	(Katie O'Brien, PhD, Bio marked Kornak Exhibit 9 for identification.)
2 3 4 5	I'm sorry, go ahead. A. No, I'm just going to give you an example within UCSF, you can have people that head groups and it's really them and a postdoc, so I don't know what	2 3 4 5	(Katie O'Brien, PhD, Bio marked Kornak Exhibit 9 for identification.)
2 3 4 5	I'm sorry, go ahead. A. No, I'm just going to give you an example within UCSF, you can have people that head groups and it's really them and a postdoc, so I don't know what this means, but, again, I'm not doubting	2 3 4 5 6	(Katie O'Brien, PhD, Bio marked Kornak Exhibit 9 for identification.) BY MR. TISI: Q. She's a member of the Chronic
2 3 4 5 6 7	I'm sorry, go ahead. A. No, I'm just going to give you an example within UCSF, you can have people that head groups and it's really them and a postdoc, so I don't know what this means, but, again, I'm not doubting this person's credentials.	2 3 4 5 6 7	(Katie O'Brien, PhD, Bio marked Kornak Exhibit 9 for identification.) BY MR. TISI: Q. She's a member of the Chronic Disease Epidemiologist Group.
2 3 4 5 6 7 8	I'm sorry, go ahead. A. No, I'm just going to give you an example within UCSF, you can have people that head groups and it's really them and a postdoc, so I don't know what this means, but, again, I'm not doubting this person's credentials. Q. Okay. It says that she was a	2 3 4 5 6 7 8	(Katie O'Brien, PhD, Bio marked Kornak Exhibit 9 for identification.) BY MR. TISI: Q. She's a member of the Chronic Disease Epidemiologist Group. Do you see that?
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2 3 4 5 6 7 8 9 10	I'm sorry, go ahead. A. No, I'm just going to give you an example within UCSF, you can have people that head groups and it's really them and a postdoc, so I don't know what this means, but, again, I'm not doubting this person's credentials. Q. Okay. It says that she was a past president of the American College of Epidemiology.	2 3 4 5 6 7 8 9 10	(Katie O'Brien, PhD, Bio marked Kornak Exhibit 9 for identification.) BY MR. TISI: Q. She's a member of the Chronic Disease Epidemiologist Group. Do you see that? A. Yes. Q. And the next page, page 2,
2 3 4 5 6 7 8 9 10 11	I'm sorry, go ahead. A. No, I'm just going to give you an example within UCSF, you can have people that head groups and it's really them and a postdoc, so I don't know what this means, but, again, I'm not doubting this person's credentials. Q. Okay. It says that she was a past president of the American College of Epidemiology. Do you see that?	2 3 4 5 6 7 8 9 10 11	(Katie O'Brien, PhD, Bio marked Kornak Exhibit 9 for identification.) BY MR. TISI: Q. She's a member of the Chronic Disease Epidemiologist Group. Do you see that? A. Yes. Q. And the next page, page 2, its says "She's a staff scientist in the
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	I'm sorry, go ahead. A. No, I'm just going to give you an example within UCSF, you can have people that head groups and it's really them and a postdoc, so I don't know what this means, but, again, I'm not doubting this person's credentials. Q. Okay. It says that she was a past president of the American College of Epidemiology. Do you see that? A. Yes. Q. Are you a member of the American College of Epidemiology? A. No, I'm not a member. Q. Okay. It says she received the NIH directors award in 2009 for developing the Sister Study. Do you see that? A. Yes. Q. Okay. Is that something that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	(Katie O'Brien, PhD, Bio marked Kornak Exhibit 9 for identification.) BY MR. TISI: Q. She's a member of the Chronic Disease Epidemiologist Group. Do you see that? A. Yes. Q. And the next page, page 2, its says "She's a staff scientist in the Epidemiology Branch, where she helps lead the Sister Study, a prospective cohort study designed to identify environmental and genetic risk factors for breast cancer. Within the study, O'Brien's main interests include how environmental and hormone-related exposures are related to breast, ovarian and uterine cancers." Do you see that? A. Yes.

1	Page 130		Page 132
I	what her PhD is in, but no, I'm not saying	1	A. Yes.
1	that she's not credentialed.	2	Q. And she's one of the
3	Q. Do you have any reason to	3	coauthors on O'Brien (2024), true?
4	believe based upon her biography that she's	4	A. I don't remember the list of
5		5	coauthor names, but I think
6	or author a study like O'Brien (2024)?	6	Q. Exhibit No. 8, she's right
7	A. I don't see in here that she	7	there in the front.
8	has basically the biostatistical expertise	8	A. I'm not doubting you, I just
9	to deal with the kind of methodological	9	wanted to double-check. Yes, she's there.
10	issues that are involved in all of the	10	Q. Okay.
11	imputation and correction processes and	11	A. Yeah.
12	made up steps in O'Brien (2024).	12	Q. So there is a biostatistician
13	Q. Okay. Let's talk about	13	on this paper who is you have no reason
14	somebody who may actually do that. Can we	14	to doubt their who is actually the head
15	go to Exhibit No. 12? This is the	15	of the biostatistics branch for almost 20
16	biography, the NIH biography of Clarice	16	years at the National Institute of
1	Weinberg, PhD, Senior Investigator	17	Environmental Health Sciences, correct?
1	Biostatistics and Computational Biology	18	A. Yeah.
	Branch at NIEHS.	19	Q. Do you have any reason to
20	Do you see that?	_	believe that she doesn't understand
21	A. Yes.	l .	imputation methods or how to correct for
22		l	recall bias?
23	(Clarice Weinberg, PhD, bio	23	A. I mean, all I can say is she
24	marked Kornak Exhibit 12 for	24	was a coauthor on there and that she is
	Page 131		Page 133
1	identification.)		greatly credentialed in biostatistics and
2		l	I'm amazed that if she looked at this
3	BY MR. TISI:	l	closely enough that she let it go through
4	() And it you go to the second		
	Q. And if you go to the second	l	with her name on it with all of those flaws
5	page, it says in her biography, okay, it	5	that are in the paper. I certainly would
6	page, it says in her biography, okay, it says she was elected fellow of the American	5 6	that are in the paper. I certainly would not have done it and I would have asked to
6 7	page, it says in her biography, okay, it says she was elected fellow of the American Statistical Association in 1995, awarded	5 6 7	that are in the paper. I certainly would not have done it and I would have asked to be taken off.
6 7 8	page, it says in her biography, okay, it says she was elected fellow of the American Statistical Association in 1995, awarded both the Janet Norwood Award and Mantel	5 6 7 8	that are in the paper. I certainly would not have done it and I would have asked to be taken off. Q. Let's go to Exhibit No. 11.
6 7 8 9	page, it says in her biography, okay, it says she was elected fellow of the American Statistical Association in 1995, awarded both the Janet Norwood Award and Mantel Award in 2005, and was elected to the	5 6 7 8 9	that are in the paper. I certainly would not have done it and I would have asked to be taken off. Q. Let's go to Exhibit No. 11. This is Nicolas Wentzensen, a senior
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.	Page 134	Page 136
	I established the Ovarian Cancer Cohort	1 clinical areas and they suddenly do not
	Consortium (OC3) to conduct well-powered	2 have the charts to deal with this kind of
	studies of risk factors and biomarkers for	3 problem. So, like I said, I don't know Dr.
	histologic subtypes," correct?	4 Wentzensen. He does have an MD. He does
5	A. That is what is stated there,	5 have a PhD. He has credentials. But I
1	yes.	6 don't see evidence that he has the
7	Q. Okay. So do you have any	7 biostatistical skills to know how to review
	reason to believe that he doesn't	8 the paper.
	understand how to analyze cohort data with	9 Q. Okay. All right. So I'm
	respect to ovarian cancer and risk factors?	10 going to show you Exhibit No. 13, which is
11	A. Other than the fact that he	11 a report of the OC3 cohort where Dr.
	put his name on this paper when he's	12 Wentzensen is the last author.
1	clearly using flawed analysis, I can't	Do you see that?
	point to anything else. I don't know the	14 A. Yes.
	professor and I don't know his history of	15
16	publications	16 (OC3 Cohort Profile marked
17	Q. Let's look at it	17 Kornak Exhibit 13 for
18	A. I don't know his	18 identification.)
19	biostatistical expertise.	19
20	Q. Let's look at his biography	20 BY MR. TISI:
21	on the next page, page 4, he received an MD	21 Q. You see Dale Sandler up
22	in 2000 and a PhD in 2007.	22 there? Three lines up.
23	Do you see that?	A. It will take me a little
24	A. Yes.	24 while to go through here.
	Page 135	Page 137
1	Q. He became, if you go down, it	1 Q. Three lines up, right there,
2	says he became a tenure-track investigator	2 right?
3	in 2009 and was awarded scientific tenure	3 A. Yes, I see Dale Sandler.
4	by the NIH and appointed senior	4 Q. Okay. Katie O'Brien is
5	investigator in 2013.	5 there?
6	Do you see that?	6 A. I'll just watch your cursor,
7	A. Yes.	7 rather than where is Katie O'Brien? Oh,
8	Q. And it says his "research is	8 yeah. Yup.
0	focused on clinical epidemiology of	
1 2		9 Q. And this is not just a Sister
	gynecological cancers. His research has	9 Q. And this is not just a Sister 10 Study, this is an Ovarian Cancer Cohort
10	gynecological cancers. His research has	10 Study, this is an Ovarian Cancer Cohort
10 11	gynecological cancers. His research has been highly recognized internationally."	Study, this is an Ovarian Cancer CohortConsortium published in the International
10 11 12	gynecological cancers. His research has been highly recognized internationally." Do you see that?	Study, this is an Ovarian Cancer CohortConsortium published in the InternationalJournal of Epidemiology.
10 11 12 13 14	gynecological cancers. His research has been highly recognized internationally." Do you see that? A. Yes.	 Study, this is an Ovarian Cancer Cohort Consortium published in the International Journal of Epidemiology. Do you see that?
10 11 12 13 14 15	gynecological cancers. His research has been highly recognized internationally." Do you see that? A. Yes. Q. Do you have any reason to	10 Study, this is an Ovarian Cancer Cohort 11 Consortium published in the International 12 Journal of Epidemiology. 13 Do you see that? 14 A. Yes.
10 11 12 13 14 15 16	gynecological cancers. His research has been highly recognized internationally." Do you see that? A. Yes. Q. Do you have any reason to believe that he doesn't understand how to	10 Study, this is an Ovarian Cancer Cohort 11 Consortium published in the International 12 Journal of Epidemiology. 13 Do you see that? 14 A. Yes. 15 Q. And if you go down, it says
10 11 12 13 14 15 16	gynecological cancers. His research has been highly recognized internationally." Do you see that? A. Yes. Q. Do you have any reason to believe that he doesn't understand how to construct a study that would look at risk	 Study, this is an Ovarian Cancer Cohort Consortium published in the International Journal of Epidemiology. Do you see that? A. Yes. Q. And if you go down, it says "The Ovarian Cancer Cohort Consortium was
10 11 12 13 14 15 16 17 18	gynecological cancers. His research has been highly recognized internationally." Do you see that? A. Yes. Q. Do you have any reason to believe that he doesn't understand how to construct a study that would look at risk factors for ovarian cancer?	10 Study, this is an Ovarian Cancer Cohort 11 Consortium published in the International 12 Journal of Epidemiology. 13 Do you see that? 14 A. Yes. 15 Q. And if you go down, it says 16 "The Ovarian Cancer Cohort Consortium was 17 established to facilitate prospective
10 11 12 13 14 15 16 17 18	gynecological cancers. His research has been highly recognized internationally." Do you see that? A. Yes. Q. Do you have any reason to believe that he doesn't understand how to construct a study that would look at risk factors for ovarian cancer? A. Again, I don't know this	10 Study, this is an Ovarian Cancer Cohort 11 Consortium published in the International 12 Journal of Epidemiology. 13 Do you see that? 14 A. Yes. 15 Q. And if you go down, it says 16 "The Ovarian Cancer Cohort Consortium was 17 established to facilitate prospective 18 studies of ovarian cancer risk factors,
10 11 12 13 14 15 16 17 18 19 20	gynecological cancers. His research has been highly recognized internationally." Do you see that? A. Yes. Q. Do you have any reason to believe that he doesn't understand how to construct a study that would look at risk factors for ovarian cancer? A. Again, I don't know this person individually what he's clearly	10 Study, this is an Ovarian Cancer Cohort 11 Consortium published in the International 12 Journal of Epidemiology. 13 Do you see that? 14 A. Yes. 15 Q. And if you go down, it says 16 "The Ovarian Cancer Cohort Consortium was 17 established to facilitate prospective 18 studies of ovarian cancer risk factors, 19 biomarkers, risk prediction and outcomes
10 11 12 13 14 15 16 17 18 19 20 21	gynecological cancers. His research has been highly recognized internationally." Do you see that? A. Yes. Q. Do you have any reason to believe that he doesn't understand how to construct a study that would look at risk factors for ovarian cancer? A. Again, I don't know this person individually what he's clearly credentialed in what he knows, but I work	10 Study, this is an Ovarian Cancer Cohort 11 Consortium published in the International 12 Journal of Epidemiology. 13 Do you see that? 14 A. Yes. 15 Q. And if you go down, it says 16 "The Ovarian Cancer Cohort Consortium was 17 established to facilitate prospective 18 studies of ovarian cancer risk factors, 19 biomarkers, risk prediction and outcomes 20 while accounting for ovarian cancer
10 11 12 13 14 15 16 17 18 19 20 21 22	gynecological cancers. His research has been highly recognized internationally." Do you see that? A. Yes. Q. Do you have any reason to believe that he doesn't understand how to construct a study that would look at risk factors for ovarian cancer? A. Again, I don't know this person individually what he's clearly credentialed in what he knows, but I work with people all the time who are clearly	10 Study, this is an Ovarian Cancer Cohort 11 Consortium published in the International 12 Journal of Epidemiology. 13 Do you see that? 14 A. Yes. 15 Q. And if you go down, it says 16 "The Ovarian Cancer Cohort Consortium was 17 established to facilitate prospective 18 studies of ovarian cancer risk factors, 19 biomarkers, risk prediction and outcomes 20 while accounting for ovarian cancer 21 subtypes.
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	Page 138		Page 140
1	cancer have been identified."	1	have been involved in cohort
2	Do you see that?	2	studies of breast cancer, which I
3	A. Yes.	3	believe count as gynecological
4	Q. Okay. And Dr. Wentzensen and	4	cancers.
5		5	BY MR. TISI:
6	of that consortium, correct?	6	Q. You weren't even involved
7	A. They're all coauthors on this	7	you weren't even aware that there was an
8	paper, I don't know	8	Ovarian Cancer Cohort Consortium until I
9	Q. Do you think that they would	"	just showed you this paper five minutes
10	be part of this consortium of 1.3 million	10	
11	women if they didn't have any idea how to	11	MS. LEHMAN: Object to form.
12	analyze cohort data?	12	THE WITNESS: I don't know
13	MS. LEHMAN: Object to form.	13	whether I saw this in any of the
14	THE WITNESS: Well, first	14	documents that I reviewed. There
15	sorry, I'm going to, like, the	15	was a lot of materials that I've
16	first part of your question, I	16	reviewed. But I certainly wouldn't
17	don't know that they are part of	17	say I'm highly familiar with the
18	this consortium. I see they're	18	Ovarian Cancer Cohort Consortium.
19	coauthors on this paper. They may		BY MR. TISI:
20	well be and I have no reason to	20	
21		20 21	Q. Will you go to exhibitA. There was your other part of
$\begin{vmatrix} 21\\22\end{vmatrix}$	doubt that they are, but I don't		, I
23	know that for sure. There are many		the question was about whether they're able
24	sort of consortium papers where		to analyze cohort studies, I believe, and
24	other people are added as coauthors	24	in that respect, the fact that what the
1	Page 139 that are not part of the	1	Page 141 authors did in O'Brien (2024) does not bode
$\frac{1}{2}$	consortium, so		well for saying that they do a good job of
$\frac{2}{3}$	BY MR. TISI:		analyzing cohort studies, because the
4	Q. Well, you saw that Dr.	4	•
	Wentzensen, when I pulled up his biography,		here, you know, this is talking about
	he actually organized this, correct?		facilitating prospective studies and yet
7	A. I mean, yeah, I accept that		O'Brien is all about retrospective
	Dr. Wentzensen is part of the consortium.		analysis
1	I just don't know about the others.	9	Q. All right. Well, we're going
10	Q. Okay.		to talk about that in a minute, but let me
11	A. And I have no reason to doubt		just ask you this question now. In cohort
	it, please don't get me wrong.		studies, it is not unusual at all for
13	Q. Well, you're not part of		follow-up questionnaires to be issued when
	anything like this, are you? You're not		a research question comes up, true?
1	part of you have never studied or been	15	A. And I'm trying to think of
15	involved with any cohort data with respect		specific analysis situations. I mean,
1	to any gynecologic cancer, have you?	17	- ·
18	MS. LEHMAN: Object to form.		look at things longitudinally, you decide
19	THE WITNESS: Strictly		that before you start the cohort study and
20	speaking, I think I mean, I		you have a prespecified plan of what
20 21	don't think that's the the point		when you will be collecting data, what will
21 22	-		•
22 23	is I'm a biostatistician and my math is applicable across a wide		be in that data. If you're going to modify that in any way, that gets goes into the
24	range of areas, but I certainly		protocol in some way, but so I think
44	range or areas, but I certainly	44	protocol in some way, but so I tillik

Page 142	Page 1
1 it's kind of unusual to just kind of	1 Initiative cohorts, correct?
2 like	2 A. I've seen that those were in
3 Q. Really?	3 O'Brien (2020), I believe.
4 A decide you're going to do	4 Q. And you did not know that the
5 another survey or something, yeah.	5 question about talc use wasn't asked at the
6 Q. Okay. So let me ask you this	6 enrollment, you didn't know that, correct?
7 question. Are you aware that there are	7 A. I don't recall that, no.
8 other cohort studies which have looked at	8 Q. Okay.
9 the question of talc and ovarian cancer	9 A. Yeah.
10 including the Women's Health Initiative,	10 Q. If I am correct, and I know
11 the Nurses' Study?	11 that I am, that those questions weren't
12 A. Yes, I mean they're in	12 asked until after the study was initiated,
13 O'Brien (2020) as part of their combined	13 many years after the study was initiated,
14 analysis.	14 would that call into question the
15 Q. Do you know that the talc use	15 reliability of those studies, in your
16 wasn't part of the original enrollment	16 opinion?
17 questionnaire, but was only asked in a	17 MS. LEHMAN: Object to form.
18 subsequent questionnaire during the course	18 THE WITNESS: It would give me
19 of those cohorts.	19 concern about inference from that
20 Do you know that?	20 study incorporating additional
21 A. I wouldn't say I may have	21 sources of bias, such as recall
22 seen it when I was going through the	bias. I would look at specifically
23 O'Brien (2020) paper, if it's there. I	the design and the timeline to
24 don't recall it specifically. But if	follow that, that wasn't the focus
• •	<u> </u>
Page 143 1 that's the case, then that weakens my	Page 1 of my I'm not opining on that
2 perspective of that study.	2 study per se.
3 Q. Okay. So if it is true,	3 BY MR. TISI:
4 okay, that cohort studies upon which J&J	4 Q. The lawyers didn't ask you to
5 has relied on in this litigation asked	5 do that, did they?
6 questions about tale use in a subsequent	6 MS. LEHMAN: Object to form.
7 questionnaire, those turn those studies	7 THE WITNESS: No, I mean, I
8 into case-control studies, retrospective	8 was asked to give an independent
9 case-control studies; is that your opinion?	9 review of O'Brien (2024) and to
10 MS. LEHMAN: Objection.	that extent, I reviewed O'Brien
THE WITNESS: I mean that	11 (2024) and materials associated
12 BY MR. TISI:	12 with that. I think we have been
13 Q. Let me rephrase the	13 going I'm going to ask for a
14 question	break at this point. We have been
15 A was a convoluted question	15 going for an hour and a quarter, I
16 and I couldn't follow it.	think, so I could do with five
17 Q. Let me rephrase that	17 minutes.
18 question. If those studies,	18 MR. TISI: Fine. That's okay.
19 hypothetically, use	19 We'll take a break now. I'm at a
20 A. Are we talking about any	20 breaking point.
21 other specific studies or something	20 breaking point.
_	
, 1	22 (A recess was taken at this time.) 23
23 You said you had seen reference to the24 Nurses' Health Study and the Women's Health	24
1 24 INDISES ITEAID STUDY AND THE WONEINS HEARIN	4

D 14	D 140
Page 14 1 BY MR. TISI:	Page 148 1 Bayesian analysis in general, but that is
2 Q. Back on the record.	2 missing data work
3 Dr. Kornak, we took about a half hour break	3 Q. Okay. Well
4 and in the interim, I looked up two	4 A. The question you asked, I did
5 articles that you mentioned, I believe,	5 not do any specific papers about, they
6 discussing methods of imputation and they	6 appear elsewhere. If you want to check the
7 were number 29 and 32 of your CV. One	7 record on that, that's fine.
8 titled "Bayesian k-space-time	8 Q. Doctor, I'm going to check
9 reconstruction of MR spectroscopic imaging	9 the record as I do all the time. My
10 for enhanced resolution."	10 question, I'm going to ask you again, is in
11 And the second one is	11 any of your published work, articles,
12 "K-Bayes reconstruction for perfusion MRI	12 whatever, have you discussed the analytical
13 II: Modeling and technical development,"	13 tool of multiple imputation or single
14 both in 2010. Those were the studies you	14 imputation as a method for dealing with
15 referred to?	15 missingness, not whether you used it, but
16 A. Yes, I believe so.	16 whether you discuss when it's appropriate
17 Q. Okay. Would it surprise you	17 and under what circumstances?
18 that the word "imputation" isn't even used	18 A. Well, the answer to that is
19 in these articles?	19 going to be yes, because when you use it
20 A. No, it wouldn't surprise me.	20 unfortunately, this is not what O'Brien
21 Q. All right. Let's go	21 (2024) do, they don't justify why they're
A. I would say that the uses	22 using it in their particular situation and
23 of	23 whether it's appropriate. But whenever
24 Q. No question.	24 we I have been involved in using it in
Page 14	7 Page 149
Page 14 1 A. The use of imputation I	Page 149 1 multiple imputation approaches or any way
1 A. The use of imputation I 2 would need to qualify my answer	
1 A. The use of imputation I 2 would need to qualify my answer 3 Q. No, but I asked you the	 1 multiple imputation approaches or any way 2 of dealing with missing data, I want to 3 discuss those, the limitations of using
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	Page 150		Page 152
1		1	and with asbestos was a definite ovarian
2	BY MR. TISI:	2	carcinogen. You understand that to be
3	Q. You know IARC, have you been	3	true, right?
4	involved in IARC? Have you ever been	4	MS. LEHMAN: And I'm going to
5	involved with IARC in any way?	5	object. This is beyond the scope
6	A. No. I mean, not directly. I	6	of his report.
7	may have been indirectly through my other	7	MR. TISI: Well, he said he
8	work in cancer research, but not directly.	8	looked at it, so I'm asking him
9	Q. But you have to be actually	9	that question. You understand that
10	asked to be a member of an IARC panel, you	10	that that's what they concluded,
11	know that, right?	11	right?
12	A. I don't know what their	12	THE WITNESS: I think you
13	methods are for bringing members onto the	13	froze in the middle of the
14	panel, I don't know.	14	question, so I didn't get it.
15	Q. You would agree with me that	15	BY MR. TISI:
16	IARC is considered to be a reputable and	16	Q. You understand that that's
17	important international organization with	17	what they concluded that talc without
	respect to the study of cancer and risk	18	asbestos is a probable ovarian carcinogen
	factors?	19	and with asbestos was a definite ovarian
20	A. I think it's an established	20	carcinogen. You understand that that was
	agency in that field in terms of cancer		the conclusion of the IARC panel that was
	research, yes.		asked to look at this question, true?
23	Q. Okay. By the way, do you	23	MS. LEHMAN: And I would,
24	know in this past week first of all, do	24	again, object as this is beyond the
	Page 151		Page 153
	you know that both Dr. O'Brien and Dr.	1	scope of his report.
	Wentzensen were asked to be part of this	2	THE WITNESS: Yeah, I mean, I
	particular panel because of their	3	would agree that I'm certainly
4	expertise, correct?	4	not but my understanding is that
5	MS. LEHMAN: Object to form.	5	from this paper that it moved from
6	THE WITNESS: I know that	6	2B to 2A, so from possible to
7	from I think you were going to	7	probable. Although, I looked at
8	go start talking about the press	8	that document and I didn't see any
9	release, the recent that came	9	new data or information or new
10	out in the last couple of days, but	10	publications that they took into
11	their names were on there, so they	11	account to update this decision.
12	were on the panel. I don't know if	12	So I don't see any real reason
13	they were asked to go on or whether	13	it doesn't update my opinions
14	they asked if they could go on. I		BY MR. TISI:
15	don't know the process for their	15	Q. Well
16 17	constructing panels. BY MR. TISI:	16	A. I don't see any reason any justification for changing from the
18			justification for changing from the
	Q. Well, since you talked about the press release that came out in the past	18	previous stance. Q. So let's look at that for a
	_		-
	week, you do know that the panel upon which		moment. Would you look at actually,
	these authors, who were authors of multiple Sister Study publications, were part of a	21 22	,
	panel that determined on talc without		we look at what I would like to have marked
172	TRAINGE THAT ANGLE HITHERT OIL LAIN WITHOUT	43	we rook at what I would like to liave illaiked
	asbestos was a probable ovarian carcinogen		as Exhibit No. 28. It's the last, if you

	5 454		D 446
1	Page 154 look at page 15, can you put up Exhibit	1	with O'Brien's prior work, right?
	No. 28, please? It says and this is	$\frac{1}{2}$	MS. LEHMAN: Object to form.
	from Lancet, the Lancet publication, "Since	$\frac{2}{3}$	-
	Volume 93, more consistent positive	4	Q. And you refer to on page
	associations for ever-use versus never-use	l	on paragraph 25B. Do you see that?
1	have been reported in pooled cohort studies	6	A. In 25B, I see that I'm just
	and case-control studies, including	7	, ,
	evidence of exposure-response relationship	Q	stating that O'Brien (2020) uses data on ovarian cancer incidence from 2003 through
9		l	
10	with frequency or duration of use." Do you see that?	10	September 2017 and estimates a hazard ratio
11	A. I see that's what it states		summarizing an association between genital talc use and ovarian cancer of 1.02 for
l		l	
	there, yes.		their point estimate with a 95 percent
13	Q. And they have footnotes		confidence interval spanning 0.76 through
	there, right?	l	1.38. I don't see any discussion
15	A. They have references	15	Q. And you said that the
l	presumably to publications, yes.		ultimate conclusions of O'Brien (2024) was
17	Q. And one of those footnotes is		inconsistent with an association, true?
	O'Brien (2020), which you said showed no		That's the whole point of paragraph 25
l	association, true?	l	excuse me yeah, 25.
20	A. So, again, like, you know,	20	A. No, I think what I'm pointing
	that's O'Brien (2020). It's I've		out here in particular, I'm not I would
	already taken that into account in my		have to read here your statement to say
	opinions and it suddenly doesn't lead to		whether I agree or disagree
24	reliable information about an association.	24	Q. My point is
	Page 155		Page 157
1	And I notice the clear omission of O'Brien	1	A. Can I just finish here? I
l	And I notice the clear omission of O'Brien (2024) from those.	2	A. Can I just finish here? I just
2 3	And I notice the clear omission of O'Brien (2024) from those. Q. Well, I'm going to move to	l	A. Can I just finish here? I just Q. Sure. I thought you were
2 3 4	And I notice the clear omission of O'Brien (2024) from those. Q. Well, I'm going to move to strike. My question was in your report,	2 3 4	A. Can I just finish here? I just Q. Sure. I thought you were A. What I'm saying here in 25,
2 3 4 5	And I notice the clear omission of O'Brien (2024) from those. Q. Well, I'm going to move to strike. My question was in your report, you said repeatedly that the results that	2 3 4 5	A. Can I just finish here? I just Q. Sure. I thought you were A. What I'm saying here in 25, I'm just trying to answer your question is
2 3 4 5 6	And I notice the clear omission of O'Brien (2024) from those. Q. Well, I'm going to move to strike. My question was in your report, you said repeatedly that the results that show a positive association in O'Brien	2 3 4 5	A. Can I just finish here? I just Q. Sure. I thought you were A. What I'm saying here in 25,
2 3 4 5 6 7	And I notice the clear omission of O'Brien (2024) from those. Q. Well, I'm going to move to strike. My question was in your report, you said repeatedly that the results that show a positive association in O'Brien (2024) was inconsistent with O'Brien's	2 3 4 5 6 7	A. Can I just finish here? I just Q. Sure. I thought you were A. What I'm saying here in 25, I'm just trying to answer your question is that O'Brien (2024), the prospective analysis, their clean analyses is
2 3 4 5 6 7	And I notice the clear omission of O'Brien (2024) from those. Q. Well, I'm going to move to strike. My question was in your report, you said repeatedly that the results that show a positive association in O'Brien (2024) was inconsistent with O'Brien's prior work showing no association, correct?	2 3 4 5 6 7 8	A. Can I just finish here? I just Q. Sure. I thought you were A. What I'm saying here in 25, I'm just trying to answer your question is that O'Brien (2024), the prospective analysis, their clean analyses is prospective that avoids the risk of recall
2 3 4 5 6 7 8 9	And I notice the clear omission of O'Brien (2024) from those. Q. Well, I'm going to move to strike. My question was in your report, you said repeatedly that the results that show a positive association in O'Brien (2024) was inconsistent with O'Brien's prior work showing no association, correct? MS. LEHMAN: Object to form.	2 3 4 5 6 7 8 9	A. Can I just finish here? I just Q. Sure. I thought you were A. What I'm saying here in 25, I'm just trying to answer your question is that O'Brien (2024), the prospective analysis, their clean analyses is prospective that avoids the risk of recall bias, of making up data, of imputing data
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Page 158	Page 160
1 BY MR. TISI:	1 This is
2 Q. Yeah, sure, go back to	2 Q. Do you agree
3 Exhibit number Jeff, can you go back to	3 MS. LEHMAN: Let him finish.
4 Exhibit No. 28, please, paragraph 15. It	4 Let him finish.
5 says "Since more consistent positive	5 THE WITNESS: This is just
6 associations for ever-use versus never-use	6 kind of a publication, a
7 have been reported in pooled cohort studies	7 commentary, I don't know what you
8 and case-control studies including evidence	8 want to call it. It's stating what
9 of exposure-response relationship with	9 it says. It doesn't seem to have
10 frequency and duration of use."	gone in-depth to try to really get
And as part of that, they	at the biostatistical issues that
12 actually cite O'Brien (2020), true?	are going on here, but it is just a
13 A. They do indeed cite O'Brien	short a summary, so I don't know
14 (2020). I disagree that O'Brien (2020)	what they have in mind.
15 demonstrates a reliable association between	15 BY MR. TISI:
16 talc use and ovarian cancer.	16 Q. Let's talk about the
17 Q. Okay. Let's so let me see	17 peer-review process and publication of this
18 if I can wrap this whole thing up.	18 study and the reception that it got. We
19 Previously, before the O'Brien (2024) study	19 talked about the authors and their
20 was published, the J&J lawyers in pleadings	20 qualifications and engagement in
21 in this court where this case is pending	21 A. Sorry, which paper are we
22 have called these NIH studies preeminent.	22 talking about, just so I make sure we're on
23 Do you recall that they are preeminent in	23 the same page?
24 their field?	Q. We talked about the authors,
MS. LEHMAN: Object to form. 2 BY MR. TISI: 3 Q. Based upon what you've seen 4 and what we've gone over today. 5 A. I mean, to my mind, I don't 6 know what, like, you mean by "preeminent," 7 actually. 8 Q. It was J&J's words. So I'm 9 going to tell you when O'Brien (2020) was 10 out before O'Brien (2024), J&J told the 11 court that these particular authors, 12 Wentzensen, O'Brien, Sandler were 13 preeminent. Do you agree that they are 14 preeminent in their field? 15 A. I'm not 16 MS. LEHMAN: Object to form. 17 THE WITNESS: I don't know 18 what I don't know for sure what 19 Johnson & Johnson said and I'm not	1 you know which authors, okay, in the past 2 45 minutes or so, we talked about 3 Wentzensen, O'Brien, Sandler 4 A. Okay. Are we talking about a 5 specific paper though or are we just 6 Q. We're going to in a moment 7 A talking as a group? 8 Q. You need to follow my 9 question, okay? I asked you about their 10 qualifications. 11 A. Okay. 12 Q. I asked you about their 13 qualifications. Now, I want to talk about 14 O'Brien (2024). Okay? 15 A. Okay. 16 Q. All right. Now, first of 17 all, we talked about this before, O'Brien 18 (2024) was published in a peer-reviewed 19 journal, correct?
responsible for their words and I'm not able to	20 A. Yes. 21 MS. LEHMAN: Asked and
21	
	22 answered. 23 BY MR. TISI:
24 A say I agree or disagree.	Q. What is peer review?

1	Page 162		Page 164
1 1	A. So peer review is a process,	1	little bit of what if. What if it was
2	I will admit it's an imperfect one, but	2	20 percent, what if it was 30 percent, or
3	it's the best that we have in academia,	3	whatever, they're trying out a few things
4	where people submit their scientific works	4	and saying what would change. I would sort
5	to a journal, the journal, perhaps an	5	of reserve, I wouldn't call that
6	associate editor or editor sends it out to	6	Q. Well, you know, move to
7	two or three reviewers particularly that	7	strike your answer, because my question
8	they think should be able to to review the	8	was, the question of a quantitative bias
9	paper. And then the reviewers spend some	9	analysis was clearly set out in the
10	time reviewing the paper. They give their	10	article. It would be hard to miss it, it's
	opinions as to whether it should be	11	in the title, true?
	accepted or not accepted, and anything they	12	MS. LEHMAN: Objection to
	think needs correcting and then that goes	13	form.
	back to the authors and if there are	14	THE WITNESS: I already agreed
15	corrections required, the authors will try	15	in quantitative bias analysis is in
	and do that. And so and it then goes	16	the title. I would disagree that
	back to the reviewers and then the paper is	17	it's really an analysis
	typically either accepted or rejected.	18	BY MR. TISI:
19	Q. Okay. So it's a process,	19	Q. I understand. I'm not
20	it's a scientific process that's well	20	debating you right now about what they did
21	accepted in the scientific community even	21	and what they didn't do. I'm talking about
22	with its imperfections, correct?	22	the peer-review process. Is there any
23	MS. LEHMAN: Object to form.	23	possibility in your mind that the peer
24	THE WITNESS: I mean, again,	24	reviewers could have missed the methodology
	Page 163		Page 165
1	it's kind of I don't know,	1	point of this study, particularly since
2	there's definitely a lot of debate	2	it's in the title of the article?
3	about whether the process should be	3	A. Oh, absolutely, I think they
4	changed and should be improved, but	4	did miss it, yeah.
5	as it stands, this is the process	I ~	
6	that we have for poor reviewed	5	Q. Okay. All right. Now, the
	that we have for peer-reviewed	6	article, so you think that the peer
7	journals and, like I said, I think	6	
7 8	journals and, like I said, I think it's accepted as the best we have	6 7 8	article, so you think that the peer reviewers and the journal completely missed it?
7 8 9	journals and, like I said, I think it's accepted as the best we have available to us right now.	6 7 8 9	article, so you think that the peer reviewers and the journal completely missed it? A. Yes, I do. Yeah, I mean,
7 8 9 10	journals and, like I said, I think it's accepted as the best we have available to us right now. BY MR. TISI:	6 7 8 9 10	article, so you think that the peer reviewers and the journal completely missed it? A. Yes, I do. Yeah, I mean, it's they missed it. I don't know
7 8 9 10 11	journals and, like I said, I think it's accepted as the best we have available to us right now. BY MR. TISI: Q. And you would agree with me	6 7 8 9 10 11	article, so you think that the peer reviewers and the journal completely missed it? A. Yes, I do. Yeah, I mean, it's they missed it. I don't know what I'm surprised that a journal would
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7 8 9 10 11 12 13 14 15 16	journals and, like I said, I think it's accepted as the best we have available to us right now. BY MR. TISI: Q. And you would agree with me that the quantitative bias analysis that was conducted by these NIH scientists for O'Brien (2024) was central to their article, correct? In fact, it appears in the title of the article, correct?	6 7 8 9 10 11 12 13 14 15 16	article, so you think that the peer reviewers and the journal completely missed it? A. Yes, I do. Yeah, I mean, it's they missed it. I don't know what I'm surprised that a journal would let that go. I blame it probably on the associate editors for not picking the right range of reviewers, but nobody picked up on the biostatistical problems in this paper. Q. Okay. I pulled the
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7 8 9 10 11 12 13 14 15 16 17 18	journals and, like I said, I think it's accepted as the best we have available to us right now. BY MR. TISI: Q. And you would agree with me that the quantitative bias analysis that was conducted by these NIH scientists for O'Brien (2024) was central to their article, correct? In fact, it appears in the title of the article, correct? A. I agree that it appears in the title of the article. I agree that it is a major component of their paper. It's	6 7 8 9 10 11 12 13 14 15 16 17 18	article, so you think that the peer reviewers and the journal completely missed it? A. Yes, I do. Yeah, I mean, it's they missed it. I don't know what I'm surprised that a journal would let that go. I blame it probably on the associate editors for not picking the right range of reviewers, but nobody picked up on the biostatistical problems in this paper. Q. Okay. I pulled the publication history from the article, for this article, and it's Exhibit No. 24 in your book. It was received
7 8 9 10 11 12 13 14 15 16 17 18 19 20	journals and, like I said, I think it's accepted as the best we have available to us right now. BY MR. TISI: Q. And you would agree with me that the quantitative bias analysis that was conducted by these NIH scientists for O'Brien (2024) was central to their article, correct? In fact, it appears in the title of the article, correct? A. I agree that it appears in the title of the article. I agree that it is a major component of their paper. It's kind of, let's say, the last third or	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	article, so you think that the peer reviewers and the journal completely missed it? A. Yes, I do. Yeah, I mean, it's they missed it. I don't know what I'm surprised that a journal would let that go. I blame it probably on the associate editors for not picking the right range of reviewers, but nobody picked up on the biostatistical problems in this paper. Q. Okay. I pulled the publication history from the article, for this article, and it's Exhibit No. 24 in your book. It was received A. I'm sorry, just give me a
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7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	journals and, like I said, I think it's accepted as the best we have available to us right now. BY MR. TISI: Q. And you would agree with me that the quantitative bias analysis that was conducted by these NIH scientists for O'Brien (2024) was central to their article, correct? In fact, it appears in the title of the article, correct? A. I agree that it appears in the title of the article. I agree that it is a major component of their paper. It's kind of, let's say, the last third or simply make that. I actually disagree with	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	article, so you think that the peer reviewers and the journal completely missed it? A. Yes, I do. Yeah, I mean, it's they missed it. I don't know what I'm surprised that a journal would let that go. I blame it probably on the associate editors for not picking the right range of reviewers, but nobody picked up on the biostatistical problems in this paper. Q. Okay. I pulled the publication history from the article, for this article, and it's Exhibit No. 24 in your book. It was received A. I'm sorry, just give me a

Page 166	Page 168
1 identification.)	1 A. Remind me of which number
2	2 that is.
3 BY MR. TISI:	3 Q. That is number eight. On
4 Q. It's right on the screen.	4 page 14, it says that the publication was
5 A. Yes, the pages through the	5 "Supported by an Intramural Research
6 binder.	6 Program of the National Institute of
7 Q. I'll blame that on Jeff.	7 Environmental Health Sciences, National
8 A. All right.	8 Institutes of Health."
9 Q. If you look at the very	9 Do you see that?
10 bottom, it's on the screen as well, it was	10 A. On page 14, where are we
11 received for publication in September of	11 looking at? Sorry.
12 2023, revised in January 2024. Accepted	12 Q. Support.
13 for publication in March of 2024 and	13 A. Under support.
14 published in May of 2024. So this whole	14 Q. The second column at the very
15 process took about eight or nine months,	15 end of the article.
16 correct?	16 Do you see that?
17 A. That's not unusual for	17 A. Yes, I do.
18 Q. And you claim that the	18 Q. All right. And so it's
19 authors, the peer reviewers and everybody	19 supported through an NIH grant, correct?
20 involved has missed it, right?	20 A. Intramural grant, so that's
21 A. Sorry, what is it that you're	21 within the NIH. So I don't know that it's
22 talking about specifically?	22 a typical NIH grant
23 Q. The methodology concerns that	23 Q. Correct.
24 you identify in your report, Exhibit 1.	24 A paid for by
Page 167	1 2
1 A. They absolutely missed it,	1 Q. Correct. Do you understand
2 yes.	2 that intramural grants, publications that
	2 that initialitiat at Stanto, patricultures that
3 Q. Okay.	
	3 are as a result of an intramural grant by
4 A. Well, I don't know if there's	3 are as a result of an intramural grant by4 NIH scientists when they publish a paper,
4 A. Well, I don't know if there's 5 a comment and the associate editor ignored	3 are as a result of an intramural grant by
4 A. Well, I don't know if there's 5 a comment and the associate editor ignored 6 it, I don't know about the inner workings,	 3 are as a result of an intramural grant by 4 NIH scientists when they publish a paper, 5 in addition to undergoing peer review by 6 the journal, the article is actually
4 A. Well, I don't know if there's 5 a comment and the associate editor ignored	 3 are as a result of an intramural grant by 4 NIH scientists when they publish a paper, 5 in addition to undergoing peer review by 6 the journal, the article is actually 7 submitted to the NIH for their approval?
4 A. Well, I don't know if there's 5 a comment and the associate editor ignored 6 it, I don't know about the inner workings, 7 but the final paper has these flaws in it.	 3 are as a result of an intramural grant by 4 NIH scientists when they publish a paper, 5 in addition to undergoing peer review by 6 the journal, the article is actually 7 submitted to the NIH for their approval?
4 A. Well, I don't know if there's 5 a comment and the associate editor ignored 6 it, I don't know about the inner workings, 7 but the final paper has these flaws in it. 8 I mean	3 are as a result of an intramural grant by 4 NIH scientists when they publish a paper, 5 in addition to undergoing peer review by 6 the journal, the article is actually 7 submitted to the NIH for their approval? 8 A. You know, I don't know what
4 A. Well, I don't know if there's 5 a comment and the associate editor ignored 6 it, I don't know about the inner workings, 7 but the final paper has these flaws in it. 8 I mean 9 Q. Do you have any reason I'm	3 are as a result of an intramural grant by 4 NIH scientists when they publish a paper, 5 in addition to undergoing peer review by 6 the journal, the article is actually 7 submitted to the NIH for their approval? 8 A. You know, I don't know what 9 process they actually go through in the
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1	Page 170	1	Page 172
	studies that they hand out grants here.	$\frac{1}{2}$	MS. LEHMAN: Object to form.
2	Q. I'm sorry, you froze. Did I	$\begin{vmatrix} 2 \\ 2 \end{vmatrix}$	THE WITNESS: I didn't hear
	interrupt your answer? I apologize, you	3	BY MR. TISI:
	froze.	4	Q. Feature the article, it
5	A. No, you didn't interrupt.	5	highlighted the article and published it on
1	I'm fine.	6	the NIH website for the world to see
7	Q. My point here is this, in	7	because it was an important study, true?
	addition to the normal peer review to	8	MS. LEHMAN: Object to form.
9	appear in a publication, this article had	9	THE WITNESS: I think that's a
	to be submitted by the authors to the NIH	10	stretch to make that conclusion
	for its approval, correct?	11	there.
12	A. I mean, I understand there's		BY MR. TISI:
	some kind of process, I don't know what	13	Q. Okay.
	that process entails, but I would not call	14	A. Now, at UCSF, in our
	it peer review, no, sir.		department, people write papers and we put
16	Q. Okay. But NIH clearly knew		out little sort of statements as kind of a
17	about it and clearly had the ability to		sales pitch for the research that you do.
	comment on this paper, true?	1	And I don't know that the NIH thing was
19 20	MS. LEHMAN: Object to form.	20	anything beyond that really.
20	THE WITNESS: You know, I		Q. Okay. Well, how many of your
21 22	really don't know if that's	21	papers have been featured by UCSF, featured, put on the website and saying
23	correct. Because, again, I don't know what whether they're		this is what you need to pay attention to?
24	reviewing it with respect to	24	A. I really don't know and I
24	reviewing it with respect to	24	A. Treatily don't know and I
1	Page 171	1	Page 173
1	whether it violates a condition of		think there may have been one or two, I'm
2	whether it violates a condition of an NIH grant that is awarded	2	think there may have been one or two, I'm not sure, but I tend to be try to be
2 3	whether it violates a condition of an NIH grant that is awarded intramurally, I don't know the	2 3	think there may have been one or two, I'm not sure, but I tend to be try to be modest. So often to get the department
2 3 4	whether it violates a condition of an NIH grant that is awarded intramurally, I don't know the process, but	2 3 4	think there may have been one or two, I'm not sure, but I tend to be try to be modest. So often to get the department kind of solicits you to try and send them
2 3 4 5	whether it violates a condition of an NIH grant that is awarded intramurally, I don't know the process, but BY MR. TISI:	2 3 4 5	think there may have been one or two, I'm not sure, but I tend to be try to be modest. So often to get the department kind of solicits you to try and send them information when you've published a paper.
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1	D 474		5 45
1	Page 174 Exhibit 4 for identification.)	1	Page 176
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	Exhibit 4 for identification.)		what you're saying, I followed there, and
3	BY MR. TISI:		then I got lost, I didn't see. I see the quote
4	Q. Okay. But	4	
5	A. I don't agree with the		Q. Actually, it says "An especially unique aspect of the study was
6	statement, but it is stated there.		the use of quantitative bias analysis to
7	Q. I understand, but you've		assess the impact of potential errors in
8	disagreed with the peer reviewers, you've		reporting use of intimate care products,
9	disagreed with the journal, and now you're		including possible differential reporting
	disagreeing with the NIH, correct?		related to being diagnosed or not diagnosed
11	MS. LEHMAN: Object to form.		with cancer," true?
12	THE WITNESS: You know, what	12	·
13	·	1	A. I'm sorry. You were reading, I thought, from the bottom paragraph and
14	you say explicitly is correct, I'm disagreeing with all of them		you went up a bit
15	BY MR. TISI:	15	-
16			
	Q. Okay. A but I believe that most of	17	the paragraph I've highlighted on the
17		18	
1	them have just taken what O'Brien said on		•
	their paper at face value without really	19	Q. The highlighted paragraph on
1	digging in there. So if you don't look at	1	the screen focuses on the quantitative bias
	the paper and you don't examine the	21	J 1
1	analysis and you just say, oh, they did		highlights it as a particularly unique, I
1	recall bias, great. Oh, they did		think that is the word they use, rigorous
24	corrections, great. But they're not great,	24	and unique feature of the study, true?
1	Page 175	1	Page 177 A. It's
1	because they're flawed and they're made up and they're artificial.	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	
3	•	$\frac{2}{3}$	MS. LEHMAN: Object to form. THE WITNESS: I didn't follow
1	Q. Okay. So now let's look at what the the NIH in it's brief summary	4	
1	what the the Mili in it's offer summary		evectly the wording you said as you
	•		exactly the wording you said as you
	here actually focuses on the methods, don't	5	were reading it, but
1	here actually focuses on the methods, don't they?	5	were reading it, but BY MR. TISI:
6 7	here actually focuses on the methods, don't they? A. Can you point me to where you	5 6 7	were reading it, but BY MR. TISI: Q. Well, let's read it together
6 7 8	here actually focuses on the methods, don't they? A. Can you point me to where you think they do?	5 6 7 8	were reading it, but BY MR. TISI: Q. Well, let's read it together
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6 7 8 9 10 11	here actually focuses on the methods, don't they? A. Can you point me to where you think they do? Q. Sure, it says, the third paragraph down, it says "This extensive analysis, conducted using information	5 6 7 8 9 10 11	were reading it, but BY MR. TISI: Q. Well, let's read it together A. What is actually stated there in meaning, but I do not agree that that's a review of the methods that they used.
6 7 8 9 10 11 12	here actually focuses on the methods, don't they? A. Can you point me to where you think they do? Q. Sure, it says, the third paragraph down, it says "This extensive analysis, conducted using information collected by the Sister Study cohort,	5 6 7 8 9 10 11 12	were reading it, but BY MR. TISI: Q. Well, let's read it together A. What is actually stated there in meaning, but I do not agree that that's a review of the methods that they used. They're just parroting what was in the
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6 7 8 9 10 11 12 13 14 15 16 17 18	here actually focuses on the methods, don't they? A. Can you point me to where you think they do? Q. Sure, it says, the third paragraph down, it says "This extensive analysis, conducted using information collected by the Sister Study cohort, revisits the association between intimate care products and cancer and incorporates rigorous adjustments for biases that might have affected the results of earlier studies. The study analyzed data from a cohort of women who were initially	5 6 7 8 9 10 11 12 13 14 15 16 17 18	were reading it, but BY MR. TISI: Q. Well, let's read it together A. What is actually stated there in meaning, but I do not agree that that's a review of the methods that they used. They're just parroting what was in the the authors said they did in the paper. There's nothing in there that implies in any way that these people understood what these methods were, that they were really just, correcting means flipping people over from one side to the other, that imputation
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	here actually focuses on the methods, don't they? A. Can you point me to where you think they do? Q. Sure, it says, the third paragraph down, it says "This extensive analysis, conducted using information collected by the Sister Study cohort, revisits the association between intimate care products and cancer and incorporates rigorous adjustments for biases that might have affected the results of earlier studies. The study analyzed data from a cohort of women who were initially cancer-free who reported their intimate use of intimate care products like genital talc	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	were reading it, but BY MR. TISI: Q. Well, let's read it together A. What is actually stated there in meaning, but I do not agree that that's a review of the methods that they used. They're just parroting what was in the the authors said they did in the paper. There's nothing in there that implies in any way that these people understood what these methods were, that they were really just, correcting means flipping people over from one side to the other, that imputation means that you bring in the recall bias that you found in the data you've already
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	here actually focuses on the methods, don't they? A. Can you point me to where you think they do? Q. Sure, it says, the third paragraph down, it says "This extensive analysis, conducted using information collected by the Sister Study cohort, revisits the association between intimate care products and cancer and incorporates rigorous adjustments for biases that might have affected the results of earlier studies. The study analyzed data from a cohort of women who were initially cancer-free who reported their intimate use of intimate care products like genital talc and douching over time. An especially	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	were reading it, but BY MR. TISI: Q. Well, let's read it together A. What is actually stated there in meaning, but I do not agree that that's a review of the methods that they used. They're just parroting what was in the the authors said they did in the paper. There's nothing in there that implies in any way that these people understood what these methods were, that they were really just, correcting means flipping people over from one side to the other, that imputation means that you bring in the recall bias that you found in the data you've already collected and that you're making
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	here actually focuses on the methods, don't they? A. Can you point me to where you think they do? Q. Sure, it says, the third paragraph down, it says "This extensive analysis, conducted using information collected by the Sister Study cohort, revisits the association between intimate care products and cancer and incorporates rigorous adjustments for biases that might have affected the results of earlier studies. The study analyzed data from a cohort of women who were initially cancer-free who reported their intimate use of intimate care products like genital talc and douching over time. An especially	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	were reading it, but BY MR. TISI: Q. Well, let's read it together A. What is actually stated there in meaning, but I do not agree that that's a review of the methods that they used. They're just parroting what was in the the authors said they did in the paper. There's nothing in there that implies in any way that these people understood what these methods were, that they were really just, correcting means flipping people over from one side to the other, that imputation means that you bring in the recall bias that you found in the data you've already collected and that you're making

	Page 178		Page 180
1	A. So overall, no, I don't	1	BY MR. TISI:
2	believe	2	Q. Let me rephrase it then
3	Q. So far	3	A. They did not go and actually
4	A. I don't believe that these	4	examine what the analyses are.
5	people have in any way examined the	5	Q. Let me rephrase the
6	analysis methods in the paper.	6	question
7	Q. Even though they said that,	7	A. There's a common flaw in
8	right, even though they said that	8	reviewing papers where they just accept
9	A. They are just parroting what	9	
10	is there in the paper	10	taking the time to see what really did go
11	Q. Actually, they're not	11	
12	parroting or quoting the paper at all,	12	Q. Let me rephrase the question
13	look, I'm not fussing with you here. But	13	so that we get the "it" right, okay?
14	they say the cohort that this revisits	14	A. Okay.
1	the association between intimate care	15	Q. The peer reviewers did not
16	products and cancer and incorporates	16	understand or fully appreciate the errors
17	rigorous adjustments for bias that might	17	in the methodology. The editors didn't
	have affected the results of earlier	18	understand or appreciate the methodology.
19	studies. And then it goes on to say,	19	The authors didn't understand or appreciate
20	especially, "An especially unique aspect of	20	the errors in methodology. The NIH didn't
21	the study was the use of quantitative bias	21	understand or appreciate the errors in the
22	analysis to assess the impact of potential	22	methodology. All of those people got it
23	errors in reporting use of intimate care	23	wrong, right?
24	products, including possible differential	24	MS. LEHMAN: Object to form.
	Page 179		Page 181
1	reporting related to being diagnosed or not	1	THE WITNESS: So you've gone
2	diagnosed with cancer," correct?	2	back to got it wrong again
3	A. Again, those are the words	3	BY MR. TISI:
	that these people write down. They are	4	Q. They didn't appreciate the
1	just paraphrasing what is in the O'Brien	5	errors in the methodology, correct?
	paper. You really want an analysis that	6	A. They either didn't appreciate
7	doesn't suffer from recall bias and so on,	7	or they ignored or they didn't have the
	go to the analysis in Table A2, that's		time to look into it in any depth, but they
9	clear.	9	took what O'Brien said at face value. All
10	Q. Okay. Well, we're going to		I can say is that, again, I independently
	talk about Table A2. I promise you, we're		reviewed the paper. Those flaws are there.
1	going to get there. But so far, so far	12	I clearly outline why they're flaws and
	okay, so far the peer reviewers missed it,	13	Q. So let's
	all the authors, including the	14	
	biostatistician, on the paper got it wrong	15	(Stenographer clarification.)
	and NIH was just parroting what the authors	16	
17	said, right?	17	THE WITNESS: I haven't had
18	MS. LEHMAN: Object to form.	18	anything disputing why the flaws
19	THE WITNESS: I mean, I'm	19	are there
20	going to again, when you say	20	MR. TISI: We'll get there.
21	"got it wrong," the "it" is kind of	21	THE WITNESS: Why there are
22	some vague, nebulous thing, but	22	really flaws.
23	what they did do		BY MR. TISI:
24		24	Q. We'll get there. One other

1 group that didn't understand or appreciate 2 the errors that you've identified is the 3 American Association of Clinical 4 Oncologists, true? 5 A. I think I would like you to 6 make the question more specific 7 Q. Okay. 8 A I mean, in this group, 9 there's going to be a lot of people, I 10 don't know what all these people's 11 different opinions are, so 12 Q. Well, let's talk about 13 somebody else who missed it. Let's look at 14 Exhibit No. 5. 15 A. Okay. Page 182 1 ASCO. 2 Q. She gives her phone number 3 and her email address. Did you reach 4 to her and tell her, you don't think this 5 is a particularly good study, did you? 6 A. No, but I think I didn't 7 do that and, again, I've explained that is 9 I have been asked to independently revolution to people on the basis of the people of this paper and I assume I am under sor in this paper and	'm of riew
2 the errors that you've identified is the 3 American Association of Clinical 4 Oncologists, true? 5 A. I think I would like you to 6 make the question more specific 7 Q. Okay. 8 A I mean, in this group, 9 there's going to be a lot of people, I 10 don't know what all these people's 11 different opinions are, so 12 Q. Well, let's talk about 13 somebody else who missed it. Let's look at 14 Exhibit No. 5.	'm of riew
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4 Oncologists, true? 5 A. I think I would like you to 6 make the question more specific 7 Q. Okay. 8 A I mean, in this group, 9 there's going to be a lot of people, I 10 don't know what all these people's 11 different opinions are, so 12 Q. Well, let's talk about 13 somebody else who missed it. Let's look at 14 Exhibit No. 5. 4 to her and tell her, you don't think this 5 is a particularly good study, did you? 6 A. No, but I think I didn't 7 do that and, again, I've explained that I and reaching out to people on the basis of this paper and I assume I am under sor I confidentiality constraints and I don't are want to break those. 13 Q. Are any of the are any of I the articles upon which you relied in	'm of riew
5 A. I think I would like you to 6 make the question more specific 7 Q. Okay. 8 A I mean, in this group, 9 there's going to be a lot of people, I 10 don't know what all these people's 11 different opinions are, so 12 Q. Well, let's talk about 13 somebody else who missed it. Let's look at 14 Exhibit No. 5. 5 is a particularly good study, did you? 6 A. No, but I think I didn't 7 do that and, again, I've explained that I are aching out to people on the basis 9 I have been asked to independently revolutional to this paper and I assume I am under sor and I don't are aching out to people on the basis 10 this paper and I assume I am under sor and I don't are aching out to people on the basis 11 different opinions are, so 12 Q. Well, let's talk about 13 Q. Are any of the are any of the achievement of the achievement of the people on the basis 14 the articles upon which you relied in	of riew
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8 A I mean, in this group, 9 there's going to be a lot of people, I 10 don't know what all these people's 11 different opinions are, so 12 Q. Well, let's talk about 13 somebody else who missed it. Let's look at 14 Exhibit No. 5. 8 not reaching out to people on the basis 9 I have been asked to independently rev 10 this paper and I assume I am under sor 11 confidentiality constraints and I don't 12 want to break those. 13 Q. Are any of the are any of 14 the articles upon which you relied in	of riew
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12 Q. Well, let's talk about 13 somebody else who missed it. Let's look at 14 Exhibit No. 5. 12 want to break those. 13 Q. Are any of the are any of 14 the articles upon which you relied in	
14 Exhibit No. 5. 14 the articles upon which you relied in	
14 Exhibit No. 5. 14 the articles upon which you relied in	
15 A. Okay. 15 support of your position confidential?	
16 They're all published literature, correct	?
17 (ASCO Publication marked 17 A. They are all published	
18 Kornak Exhibit 5 for 18 literature, but if I start talking to	
19 identification.) 19 people about them, then it becomes	hen
20 I become I'm talking about the case	and
21 BY MR. TISI: 21 I don't that's where I assume I'm	
22 Q. And this is a statement by 22 breaking confidentiality.	
23 the American Society of Clinical Oncology. 23 Q. Do you agree that, generally	
Do you see that? 24 speaking, the peer-review process and	not
Page 183	Page 185
1 A. Yes, and I've seen this 1 the courtroom provides the best mecha	nism
2 previously. 2 for resolving scientific uncertainty	
3 Q. All right. And if you look 3 relating to methodologic analysis of	
4 at page 4, "The American Society of 4 complex scientific issues?	
5 Clinical Oncology is committed to the 5 A. Well, it depends what you	
6 principle and the knowledge conquers 6 mean by "best" here, because what the	
7 cancer. Together with the Association for 7 complex I don't know if peer review	
8 Clinical Oncology, ASCO represents nearly 8 really resolves complex scientific issue	es.
9 50,000 oncology professionals who care for 9 Peer review kind of, like, reviews the	
10 people living with cancer." 10 paper to see if there are problems with	the
Do you see that? 11 paper, if it's flawed, but they're not	
12 A. Yes. 12 peer review doesn't try to resolve dispu	ites
13 Q. Okay. Now, if you go to the 13 in science.	
14 front of the paper I just showed you, they 14 Q. Okay. So you would disagree	
15 say this is go to page 1, please. This 15 with that statement that the peer-review	
16 is the ASCO perspective, the perspective of 16 process and not the courtroom is the beautiful and the courtroom is the courtroom is the courtroom in the courtroom in the courtroom is the courtroom in the courtroom in the courtroom is the courtroom in the courtroom in the courtroom is the courtroom in the courtroom in the courtroom is the courtroom in the courtroom in the courtroom in the courtroom is the courtroom in the cou	est
17 the organization, true? 17 mechanism for resolving scientific	
18 A. I mean, I don't think all 18 uncertainties relating to methodologic	
19 50,000 members of ASCO contributed to this 19 analysis of complex scientific data?	
20 article. I would assume there was some 20 A. I think I said it depends and	
21 small group or maybe even just one person, 21 that's what I'm sticking with, it really	
22 I don't know. Maybe it was just Naomi 22 depends on	
23 Hagelund who is listed at the top that is 23 Q. In this case, do you	
24 writing this in some way at the request of 24 A. I mean, it's like	

Page 188 Page 186 1 Q. In this case --1 quite clearly that even with their belief 2 I don't think either is the 2 that O'Brien (2024) was correct, when they A. 3 best approach --3 talk about the significance, they talk 4 Q. Okay. 4 about needing further research and 5 -- of solving complex 5 potential reevaluation. These are all sort A. 6 scientific questions. 6 of qualified statements. So even from the 7 7 journal that is backing the paper that Okay. Now, going back to 8 they've published, they still have all 8 Exhibit No. 5, the main takeaway of the 9 article is from the perspective of ASCO, 9 these qualified statements in there. 10 the organization, is "Genital talc use was 10 All right. So with respect 11 found to be positively associated with the 11 to the methodology, which is what you're 12 risk of ovarian cancer across multiple 12 here to talk about, on the next page it, 13 scenarios, even after adjusting for 13 says it "provides compelling evidence that 14 potential reporting biases and 14 genital talc use associated with an 15 misclassification. The association was 15 increased risk of ovarian cancer." 16 particularly strong among women who used 16 Do you see that? 17 talc frequently or especially during 17 A. I see that's written there. 18 periods of specific hormonal changes or 18 I don't agree with it. 19 reproductive activity." Right? 19 And the last sentence says 20 A. That is what it states, yes. 20 "They incorporate rigorous adjustments for 21 O. Okay. And they got it wrong 21 biases that may have affected earlier 22 too, they missed the methodologic flaws of 22 studies." 23 the study, true? 23 Do you see that? I don't think -- I mean. I 24 24 Again, I'm sorry. Yes, I see Page 189 1 can walk you through piece by piece here if 1 it actually says those words there. 2 Q. Right. And so they --2 you want --3 I don't agree with that. 3 We're going to, but they got A. Q. 4 And you disagree with it, 4 it wrong? O. 5 Like I said, I can walk you 5 right? 6 through piece by piece of what the problems 6 I disagree that these are 7 rigorous adjustments and I can be quite 7 are with this statement --8 We're going to talk about it, 8 clear why, because their analyses are not Q. 9 all showing positive associations. In 9 sir --10 10 fact, the only ones that do are when they I'm not saying they're right 11 or wrong. It's more complicated than that. 11 do all of the multiple imputation and when 12 I can walk you through the problems with 12 they do all -- there's a Scenario 3 where 13 the statement. Again, I think they took 13 they flip everyone and then there's a 14 what's in O'Brien at face value and --14 multiple imputation where they bring in 15 first of all, there is no adjusting here 15 recall bias, but none of the other analyses 16 for potential reporting biases. Adjusting 16 have --17 in biostatistics means you include 17 Q. And Scenario 2 is when they 18 variables within your modeling and you 18 say everybody is negative, right? Scenario 19 adjust them within your modeling. There 19 2 is where everybody is a nonuser and then 20 was no incorporation of these variables as 20 Scenario 3 is everybody is a user, right,

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21 and they did that to restore the range of

That's not correct. That's

23

22 the product --

24 not correct.

A.

24

21 adjustments in the model. That's not true.

Even here, they point out

22 So it's just plain false. So, in that

23 sense, yes, it's wrong.

Page	190 Page 192
1 Q. Okay. Well, we're going to	1 opinion. I'm just using if I
2 talk about that. But let's wrap this	2 hadn't seen that, I would say yes,
3 section up. We've gone through the peer	3 this is an editorial. All I got
4 review by JCO, the review by NIH oh, one	
5 more issue. Actually, there is one more.	5 that it isn't, I'm just saying I
6 Let's look at Exhibit No. 6. You don't	6 don't know and that just raises
7 address this in your report, but it's in	7 some doubt. But, no, I'm not
8 your it's actually in your materials	8 taking his opinion.
9 that you reviewed. There was an editorial	9 BY MR. TISI:
10 that actually accompanied this article,	10 Q. Okay. So this is I will
11 correct?	11 suggest to you that this is an invited
12 A. I mean, there is this paper	12 editorial by the authors, but whether it is
13 here, you know, I don't know what that	13 or it is not, this is an editorial
14 it's I read, I think I read in one	14 submitted to the journal which published
15 deposition that it isn't really an	15 the paper which talks about its relevance,
16 editorial, it's a letter to the editor,	16 true?
17 but	17 A. It's a paper that talks about
18 Q. Whose deposition are you	18 what the authors perceive or want to
19 referring to?	19 perceive from reading the O'Brien paper.
20 A. I think that was to Dr.	Q. And one of the authors is, as
21 Diette.	21 you know, is actually and has been
Q. All right. So are you having	22 published in the world of talc and ovarian
23 your own independent review of this	23 cancer, correct, Dr. Terry?
24 evidence or are you relying on Dr. Diette?	A. Now, is that a name we've
Page	191 Page 193
Page 1 A. No, I did my own independent	1 already come across on one of the
1 A. No, I did my own independent 2 review, I'm just I would like to answer	1 already come across on one of the2 publications?
1 A. No, I did my own independent 2 review, I'm just I would like to answer 3 the question	1 already come across on one of the2 publications?3 Q. Yeah. It was actually in the
1 A. No, I did my own independent 2 review, I'm just I would like to answer 3 the question 4 THE STENOGRAPHER: Hold on	1 already come across on one of the 2 publications? 3 Q. Yeah. It was actually in the 4 Lancet article.
1 A. No, I did my own independent 2 review, I'm just I would like to answer 3 the question 4 THE STENOGRAPHER: Hold on 5 please. Please.	1 already come across on one of the 2 publications? 3 Q. Yeah. It was actually in the 4 Lancet article. 5 A. Okay.
1 A. No, I did my own independent 2 review, I'm just I would like to answer 3 the question 4 THE STENOGRAPHER: Hold on 5 please. Please. 6 THE WITNESS: Sorry.	1 already come across on one of the 2 publications? 3 Q. Yeah. It was actually in the 4 Lancet article. 5 A. Okay. 6 Q. And if you go to Exhibit
1 A. No, I did my own independent 2 review, I'm just I would like to answer 3 the question 4 THE STENOGRAPHER: Hold on 5 please. Please. 6 THE WITNESS: Sorry. 7 THE STENOGRAPHER: You're	 already come across on one of the publications? Q. Yeah. It was actually in the Lancet article. A. Okay. Q. And if you go to Exhibit No. 7, there is an article "Genital Powder
1 A. No, I did my own independent 2 review, I'm just I would like to answer 3 the question 4 THE STENOGRAPHER: Hold on 5 please. Please. 6 THE WITNESS: Sorry. 7 THE STENOGRAPHER: You're 8 talking over each other and we had	 already come across on one of the publications? Q. Yeah. It was actually in the Lancet article. A. Okay. Q. And if you go to Exhibit No. 7, there is an article "Genital Powder Use and Risk of Ovarian Cancer: A pooled
1 A. No, I did my own independent 2 review, I'm just I would like to answer 3 the question 4 THE STENOGRAPHER: Hold on 5 please. Please. 6 THE WITNESS: Sorry. 7 THE STENOGRAPHER: You're 8 talking over each other and we had 9 and objection. I think there was	 already come across on one of the publications? Q. Yeah. It was actually in the Lancet article. A. Okay. Q. And if you go to Exhibit No. 7, there is an article "Genital Powder Use and Risk of Ovarian Cancer: A pooled Analysis of 8,525 Cases and 9,855
1 A. No, I did my own independent 2 review, I'm just I would like to answer 3 the question 4 THE STENOGRAPHER: Hold on 5 please. Please. 6 THE WITNESS: Sorry. 7 THE STENOGRAPHER: You're 8 talking over each other and we had 9 and objection. I think there was 10 an objection. I didn't hear the	1 already come across on one of the 2 publications? 3 Q. Yeah. It was actually in the 4 Lancet article. 5 A. Okay. 6 Q. And if you go to Exhibit 7 No. 7, there is an article "Genital Powder 8 Use and Risk of Ovarian Cancer: A pooled 9 Analysis of 8,525 Cases and 9,855 10 Controls."
1 A. No, I did my own independent 2 review, I'm just I would like to answer 3 the question 4 THE STENOGRAPHER: Hold on 5 please. Please. 6 THE WITNESS: Sorry. 7 THE STENOGRAPHER: You're 8 talking over each other and we had 9 and objection. I think there was 10 an objection. I didn't hear the 11 objection	1 already come across on one of the 2 publications? 3 Q. Yeah. It was actually in the 4 Lancet article. 5 A. Okay. 6 Q. And if you go to Exhibit 7 No. 7, there is an article "Genital Powder 8 Use and Risk of Ovarian Cancer: A pooled 9 Analysis of 8,525 Cases and 9,855 10 Controls." 11 Do you see that?
1 A. No, I did my own independent 2 review, I'm just I would like to answer 3 the question 4 THE STENOGRAPHER: Hold on 5 please. Please. 6 THE WITNESS: Sorry. 7 THE STENOGRAPHER: You're 8 talking over each other and we had 9 and objection. I think there was 10 an objection. I didn't hear the 11 objection 12 MS. LEHMAN: Yes, I object to	1 already come across on one of the 2 publications? 3 Q. Yeah. It was actually in the 4 Lancet article. 5 A. Okay. 6 Q. And if you go to Exhibit 7 No. 7, there is an article "Genital Powder 8 Use and Risk of Ovarian Cancer: A pooled 9 Analysis of 8,525 Cases and 9,855 10 Controls." 11 Do you see that? 12 A. Okay. I'm sorry, you're
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	D 104		D 100
1	Page 194 BY MR. TISI:	1	Page 196 O'Brien (2024) paper, also focuses on
2	Q. And Terry actually has	2	unique methods actually performed by
	written in this space, this isn't somebody	3	O'Brien (2024), correct?
	who just parachuted in with no knowledge of	4	MS. LEHMAN: Object to form.
	what the background of talc and ovarian	5	THE WITNESS: I don't think it
		6	does. I think it's a it doesn't
6 7	•	7	focus on that. It's kind of an
· '	A. Yeah, this person has been involved in the field.	8	
_		9	overall kind of summary thing and,
9	Q. Okay. And she's publishing here on the behalf of the American Cancer	10	you know, again, they sort of kind
		11	of paraphrase what the authors of
	Association Consortium, do you see that, at		the paper said they do, but they
	the very bottom?	12	don't go into any detail as what
13	MS. LEHMAN: Object to form.	13	these reclassification exposures
14	THE WITNESS: I don't know if	14	are. They don't talk about why is
15	she is I mean, yeah, that the	15	80 percent a good exposure for one
16	author list ends with on behalf of	16	group whereas is 90 percent a good
17	the Ovarian Cancer Association	17	exposure for a reclassification for
18	Consortium, but we have to be	18	another group. Even the takeaway
19	careful as to what that means. I'm	19	here, they're very kind of vague
20	also part of, like, various	20	about how far they're willing to go
21	consortiums where that kind of	21	with what's stated here. They just
22	ending appears on the author list.	22	say these data suggest that people
23	But it doesn't mean that there's	23	who are at risk for ovarian cancer
24	whatever association that we're	24	should be made aware of the
	Page 195		Page 197
1	muhlishing on habalf of taleas		
	publishing on behalf of takes	1	potential risks. These are, like,
2	responsibility for the paper.	2	very couched statements and, like,
2 3	responsibility for the paper. BY MR. TISI:	2 3	very couched statements and, like, again, doesn't point to a reliable
	responsibility for the paper. BY MR. TISI: Q. So let's go back to the	2	very couched statements and, like, again, doesn't point to a reliable association between talc use and
3 4 5	responsibility for the paper. BY MR. TISI: Q. So let's go back to the editorial that she wrote in connection	2 3 4 5	very couched statements and, like, again, doesn't point to a reliable association between talc use and ovarian cancer.
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3 4 5 6	responsibility for the paper. BY MR. TISI: Q. So let's go back to the editorial that she wrote in connection that Dr. Terry wrote in connection with the	2 3 4 5 6 7	very couched statements and, like, again, doesn't point to a reliable association between talc use and ovarian cancer. BY MR. TISI:
3 4 5 6 7	responsibility for the paper. BY MR. TISI: Q. So let's go back to the editorial that she wrote in connection that Dr. Terry wrote in connection with the O'Brien (2024) paper.	2 3 4 5 6 7	very couched statements and, like, again, doesn't point to a reliable association between talc use and ovarian cancer. BY MR. TISI: Q. Move to strike. That was not
3 4 5 6 7 8 9	responsibility for the paper. BY MR. TISI: Q. So let's go back to the editorial that she wrote in connection that Dr. Terry wrote in connection with the O'Brien (2024) paper. A. Yes.	2 3 4 5 6 7 8 9	very couched statements and, like, again, doesn't point to a reliable association between talc use and ovarian cancer. BY MR. TISI: Q. Move to strike. That was not question. My question was, they
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	D 100		D 400
1	Page 198 litigation did not do the kind of rigor	1	Page 200 BY MR. TISI:
	analysis that you did as a paid expert for	2	Q that you know of?
3	Johnson & Johnson, true?	3	A. Okay. I mean, that was a
4	A. I don't know why they didn't		really long question and there was you
5	dig into the analysis methods. I'm not	5	said, like, notoriety I think
6	sitting here trying to ascribe motives or	6	Q. Let me rephrase
7	anything. You know, as you see in my	7	A. Notoriety is kind of a
1	report, I go into the details of what the		negative
	problems are. And I point to why they're	9	Q. Let me withdraw the question.
	problems. And the clean analysis of the		I will withdraw the question. Other than
	paper, Table A2, clearly that prospective,		you and Dr. Diette and maybe Dr. Merlo who
	careful analysis, at least careful as far		are paid experts by Johnson & Johnson, have
1	as I can tell, is indicative of no.		you seen any scientists come forward and
14	Q. Okay. And other than paid		express any concerns with this paper in a
l	experts like yourself and Dr. Diette,		public forum?
	nobody else has expressed the opinion that	16	MS. LEHMAN: Objection. Asked
	you have expressed hear, true?	17	and answered.
18	A. I don't know	18	THE WITNESS: I mean, I
19	MS. LEHMAN: Object to form.	19	haven't, but I would be very
20	THE WITNESS: what other	20	surprised on how they would be.
21	people have expressed outside of	21	There's been the paper was
22	what I've read and heard. I don't	22	published May 20, it has been a
23	know of anybody that's but I do	23	month and two weeks. You already
24	know that there are experts out	24	pointed out how the peer-review
24		24	
1	Page 199 there that would look at the	1	Page 201 process could take over a year,
2	methods here and would determine	2	so
3	that they're clearly problematic,	3	BY MR. TISI:
4	because they are. It's just	4	Q. So the answer would be no?
5	BY MR. TISI:	5	MS. LEHMAN: Please let him
6	Q. All right. So let me just	6	finish.
	let me just break that down. And,	7	MR. TISI: He has not seen
	actually, I'm going to move to strike the	8	any you have not seen anybody in
	answer as nonresponsive.	9	a speech, a commentary, a letter,
10	My question is, it is now	10	anywhere other than J&J's experts
l	mid July, this paper was published to great	11	that were paid to criticize this
	notoriety in May, okay. It has been	12	paper; is that true or not true?
	reviewed and commented on by the NIH, JSCO,	13	MS. LEHMAN: Objection. Asked
	an editorial that accompanied the paper and	14	and answered.
	all kind of those things, and I understand		BY MR. TISI:
	you think they're just parroting what the	16	Q. It is true, isn't it?
	author says. I got it.	17	A. I have already said that I'm
18	My question is, has anybody		not aware of anyone that's dug into this in
l	that has not been paid by J&J put their		detail and picked up on the issues that
	name on it, either a paper or a speech or a		I've expressed.
∠U	publication which in any way criticized	20	Q. All right. So let's talk
			about O'Brien. We want to get into the
21			arean Vidical We wall to yel illio ille
21 22	this paper MS_LEHMAN: Object to form		——————————————————————————————————————
21	MS. LEHMAN: Object to form. Asked and answered.	23	methods, let's get into the methods. You would agree that O'Brien (2024)

1	Page 202	1	Page 204
$\frac{1}{2}$	A. Can I ask that if we're going		particular period of time, is related to
l _	to be starting kind of a new section that	l	the risk of ovarian cancer. That's the
3	maybe we take a five-minute break?	l	ultimate research question, right?
4	MR. TISI: I have no problem	4	MS. LEHMAN: Object to form.
5	with that. Thank you. This is a	5	THE WITNESS: You know, when
6	good time to do it.	6	you say
7	THE WITNESS: Great. Thank	7	BY MR. TISI:
8	you.	8	Q. You mention it in your
9	MR. TISI: Five minutes, if	l	report, so let's talk about it.
10	you don't mind. If you want to	10	A. Okay.
11	take longer, that's fine with me as	11	Q. On page 7 on paragraph 17
12	well.		of your report, you say the goal is to
13			estimate the association between genital
14	(A recess was taken at this time.)	l	talc use and ovarian cancer. That's the
15			ultimate goal, you want to know whether or
16	BY MR. TISI:		not there is an association between genital
17	Q. So I spent the time talking	l	talc use and ovarian cancer. That's the
	about the peer-review process and multiple	18	ultimate point of all these studies, right?
	levels of review and the authors	19	A. Yeah, I don't want to go as
	themselves, I really want to get into the		far as saying it's the ultimate point of
	actual studies and your criticisms of them.	l	all these studies, but what I state here is
	So let's kind of move to that.		I think a reasonable interpretation of what
23	First of all, I need to ask		they were doing is that their goal was to
24	you a couple of preliminary questions and	24	estimate the association between genital
	Page 203		Page 205
	hopefully that will frame what we're	1	talc use and ovarian cancer.
	talking about here. First of all, in your	2	Q. Okay. And that's a worthy
	litigation report, you discuss several	3	goal, right? That's an important public
4	articles coming out of the Sister Study,	4	health issue, right?
	Gonzalez, O'Brien (2020), O'Brien (2023),	5	MS. LEHMAN: Object to form.
6	and O'Brien (2024), right?	6	THE WITNESS: Well
7	A. Yes.	7	BY MR. TISI:
8	Q. Okay. And the general import	8	Q. It's a worthy research goal,
	of all of these studies, if you kind of	9	true?
	take it to the mountaintop, is whether or	10	A. Right. It's a question you
11	not genital talc use over a woman's	11	might want to ask from the data, but you
1		1	

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18 whether or not a product, if used, is 19 capable of using a disease. That's what

17 science of this type is to figure out

12 can't decouple from asking, like, is there

But, ultimately, the idea of

13 an effect of genital talc use and ovarian

14 cancer. So, it's, obviously, part of the

20 epidemiology does, right?

15 same bucket.

16

A. Now you've jumped another 22 step and brought in the word "causation,"

23 which is more than association, so --

Q. Let's say association. Let

19

12 lifetime is associated with the risk of

15 of the papers were thinking about over a

16 woman's life, but I think it's true they're

17 all concerned with the association of talc

20 qualification kind of brings the important

22 a public health standpoint is whether or

24 at any point in her lifetime for any

21 question, what we really want to know from

23 not if a woman uses talcum powder over --

Yeah. I don't know that all

Well, that's -- I mean, your

13 ovarian cancer, true?

18 use and ovarian cancer.

Page 206 Page 208 1 me rephrase the question. One of the goals 1 down. I really can't. 2 of epidemiology is to determine whether or 2 THE WITNESS: I apologize. 3 not the use of a substance is capable of --3 BY MR. TISI: 4 is associated with a disease, right? 4 Q. Would you agree that in 5 studying the question of whether there's an 5 Right? 6 association between talc and ovarian 6 But now you've reversed -- so 7 here, in the statement you've highlighted, 7 cancer, the important question is whether 8 we're talking about estimation. 8 or not the person actually took or was I'm not talking about that. 9 exposed to genital talc? 10 Honestly, you need to answer my question --10 I don't think it's an A. I am --11 important -- it's not really a question of 11 12 this study. 12 O. -- whether? I am answering your question. 13 A. 13 O. Okay. Do you think it's 14 Q. No, I'm asking the question. 14 important to have reliable -- if the 15 What are the goals of the epidemiology, I'm 15 question is whether or not genital talc is 16 not talking about this case, one of the 16 associated with ovarian cancer, do you 17 goals of epidemiology is to decide whether 17 think that having questions that actually 18 or not a particular product or drug or 18 ask that question is an important thing to 19 exposure is associated with a disease, 19 have? 20 true? 20 A. I think that when you're 21 21 designing a study, you would try to ask A. It's one of many possible 22 epidemiology questions. 22 questions that ascertain what you're Okay. And would you also 23 interested in and, but it's just -- and you 24 agree that an important question for this 24 want to try and collect that data in an Page 207 Page 209 1 issue, for this case, talc and ovarian 1 unbiased way that avoids sort of, say, kind 2 cancer, is whether the women in the study 2 of contamination of the data. 3 were actually and in fact ever in their 3 Well, in the real world, 4 lifetime exposed to genital talc? 4 okay, what you really want to do in this 5 MS. LEHMAN: Object to form. 5 particular study, this particular research 6 THE WITNESS: I don't think I 6 question is whether or not women actually 7 recall anywhere in the paper that 7 were exposed to genital talc. You want to 8 they say that's the goal of this 8 know that answer, right? 9 9 Again, that's not a question study. 10 BY MR. TISI: 10 of the study. The study's question is 11 about estimating the association between 11 Q. I didn't ask that question, 12 Doctor. Honestly, you need to listen to my 12 genital talc use and ovarian cancer. 13 question. My question is, an important 13 Right. And center to that is 14 question is whether or not women in the 14 whether or not women actually used genital 15 Sister Study were actually and in fact in 15 talc? 16 their lifetime been exposed to genital 16 Whether or not women used 17 talc? 17 genital talc is the exposure variable that 18 you're looking at. 18 A. But you emphasized the 19 important question, if it's --19 Now, if you go to page 5 of 20 O. Just answer the exact --20 your report, you talk about what the 21 initial enrollment questionnaire asked, 21 A. If it's not people in the 22 true? 22 field ---23 23 THE STENOGRAPHER: Wait a A. Correct.

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And the initial questionnaire

24

minute. I can't take you both

24

Page 210 Page 212 1 did not ask whether a study participant had 1 it. true? 2 ever used genital talc, did it? 2 I don't know which years they A. 3 A. No, it didn't explicitly ask 3 were more likely to use it. 4 that, no. 4 Well, the Sister Study 5 investigators actually looked at that 5 O. Okay. In fact, the 6 investigators asked whether the women 6 question, didn't they? 7 7 actually used genital talc at two very You would have to remind me 8 specific times, from 10 to 13 years old or 8 where they do that. 9 a year before enrollment, true? 9 Okay. Well, let's talk about 10 MS. LEHMAN: Object to form. 10 that in a moment. You know that the NIH 11 THE WITNESS: The 11 studies and Sister Study investigators 12 questionnaire did ask about talcum 12 found that the 20- to 50-year gap in 13 powder use between the ages of 10 13 exposure created by the original enrollment 14 to 13 and in the past 12 months. 14 questionnaire created a problem when trying 15 BY MR. TISI: 15 to answer the actual research question and Now, if you go back to the 16 that is whether or not genital talc use 16 17 Gonzalez paper, you know that the average 17 during a woman's lifetime was associated 18 range of enrollee was between 35 and 75 18 with ovarian cancer. And that is because 19 years old, correct? 19 the original questionnaire did not capture 20 A. Do you want me to go back to 20 lifetime use, true? 21 that paper? I would have to check those 21 A. I'm sorry, where are you 22 numbers. 22 seeing this? 23 Q. Sure. Let's do it. Gonzalez 23 Q. Well, let's go to -- let's go 24 was Exhibit No. 18. If you look at the 24 to the study, Exhibit No. 16. Page 211 Page 213 1 methods section on page 2, see, enrollees 1 Okay, yes. A. 2 were aged between 75 -- 35 to 74 years old, 2 If you go to page 4, it says, Q. 3 go to page 4, please. Okay. Slide down, 3 correct? 4 4 please. "Because the enrollment A. Yes, that's what it states. 5 Q. Okay. So using the Sister 5 questionnaire did not collect information 6 Study enrollees, using the youngest of the 6 on use between age 14 and one year prior to 7 Sister Study enrollees, a 35-year-old 7 enrollment, it was possible for a 8 woman, the enrollment questionnaire did not 8 participant to report never use on the 9 ask her about genital talc use between the 9 enrollment questionnaire and ever use on 10 ages of 13 and 30 years old, a period of 20 10 the follow-up questionnaire without 11 years, correct? 11 contradicting themselves;" is that true? 12 It depends when -- I'm sorry, 12 Yes, I don't disagree with A. A. 13 because of the previous 12 months, that's 13 that statement. 14 correct. 14 Okay. Now let's go back to 15 Right. Okay. Using the 15 O'Brien (2024), Exhibit No. 8. On page 14. Q. 16 oldest Sister Study enrollee, a 74-year-old 16 Top left corner, they say "The intimate 17 woman, the enrollment questionnaire did not 17 care product questions were initially 18 ask her about her use between the age of 14 18 limited to two specific time periods; age 19 and 73, a period of 49 years, true? 19 10 to 13 and the last year, and did not 20 A. Yes. 20 capture lifetime exposure or use during the 21 O. Okay. Given the Sister Study 21 most likely exposure period of ages 20 to 22 enrollment age range, the original Sister 22 39 years." 23 Studies did not ask about talc use during 23 Do you see that?

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Yes, I see that they say

24

24 the years that they were more likely to use

	Page 214		Page 216
1	that.	1	Q. Yes.
2	Q. Okay. Well, they actually	2	A. I just want to make sure I'm
3	have evidence to support that, right?	3	completely following the path.
4	A. They cite their 2023 paper, I	4	Q. Go back to Exhibit No. 8 on
5	have no reason to dispute that, no.	5	page 14.
6	Q. Let's go back and look at it,	6	A. Page 14.
7	okay?	7	Q. Okay. They say the initial
8	A. Okay.		questionnaire, "the initial intimate care
9	Q. Let's go back to the 2023		product questions were related to two
	study.		specific time periods; ages 10 to 13 years
11	A. Remind which	11	
12	Q. First of all, just for the	l	lifetime exposure or use during the most
	record, if you look at Exhibit No. 17,		likely exposure periods of 20 to 39 years."
1	that's the supplemental questionnaire that	14	Do you see that?
1	was done that you have problems with,	15	A. Yes.
	· · · · · · · · · · · · · · · · · · ·	16	
17	right? A. This is the this is a	l	
			coming out of the Sister Study to
	follow-up one?	l	demonstrate that, correct?
19	Q. Uh-huh. And the talc	19	A. They do cite their own study
	questions are not until number 138 there.	l	for that.
21	A. Did you say number 38 in the	21	Q. And let's go to Exhibit
	questions?		No. 16, which is their 2023 study.
23	Q. It's 138 on page	23	A. I'm there.
24	actually	24	Q. Okay. And if we go to the
1	Page 215	1	Page 217
1	A. I don't see the page numbers.		first page, it says, this actually they
2	Q. Yeah, I'm just going to ask	l	were using the follow-up questionnaire from
3	you, this is the questionnaire that you	3	2017 to 2019, right? It is up on the
l	reviewed, correct? I don't want to waste		screen.
5		5	A. Okay. That is what it
6	A. Without checking every page,	6	states.
_	I believe it looks like it's the same	7	Q. Okay. So they make a
8	questionnaire, yes.		distinction between the one questionnaire
9	(0) - 0 - 1 - 0 - 1		which asks for a very specific time frame,
10	(Sister Study Questionnaire		a three-year period, and the follow-up
11	marked Kornak Exhibit 17 for		questionnaire which talks about lifetime
12	identification.)	l	use, correct?
13	DV MD TYCK	13	A. They do make that distinction
	BY MR. TISI:	14	yes.
14			() And thus again the use of
14 15	Q. Okay. Now, going back to the	15	Q. And this, again, the use of
14 15 16	Q. Okay. Now, going back to the question of the appropriateness of the	16	this questionnaire passed peer review as
14 15 16 17	Q. Okay. Now, going back to the question of the appropriateness of the original questionnaire to determine the	16 17	this questionnaire passed peer review as well, correct?
14 15 16 17 18	Q. Okay. Now, going back to the question of the appropriateness of the original questionnaire to determine the ages where women were more likely to use	16 17 18	this questionnaire passed peer review as well, correct? A. I don't know whether the
14 15 16 17 18 19	Q. Okay. Now, going back to the question of the appropriateness of the original questionnaire to determine the ages where women were more likely to use talc and that original questionnaire	16 17 18 19	this questionnaire passed peer review as well, correct? A. I don't know whether the questionnaire was reviewed or not.
14 15 16 17 18 19 20	Q. Okay. Now, going back to the question of the appropriateness of the original questionnaire to determine the ages where women were more likely to use talc and that original questionnaire missing those dates, they referred, the	16 17 18 19 20	this questionnaire passed peer review as well, correct? A. I don't know whether the questionnaire was reviewed or not. Q. Okay. This is published in
14 15 16 17 18 19 20 21	Q. Okay. Now, going back to the question of the appropriateness of the original questionnaire to determine the ages where women were more likely to use talc and that original questionnaire missing those dates, they referred, the authors of O'Brien (2024) refer to their	16 17 18 19 20 21	this questionnaire passed peer review as well, correct? A. I don't know whether the questionnaire was reviewed or not. Q. Okay. This is published in the Journal of
14 15 16 17 18 19 20 21 22	Q. Okay. Now, going back to the question of the appropriateness of the original questionnaire to determine the ages where women were more likely to use talc and that original questionnaire missing those dates, they referred, the authors of O'Brien (2024) refer to their 2023 study, correct?	16 17 18 19 20 21 22	this questionnaire passed peer review as well, correct? A. I don't know whether the questionnaire was reviewed or not. Q. Okay. This is published in the Journal of A. But I can say that I think
14 15 16 17 18 19 20 21 22 23	Q. Okay. Now, going back to the question of the appropriateness of the original questionnaire to determine the ages where women were more likely to use talc and that original questionnaire missing those dates, they referred, the authors of O'Brien (2024) refer to their	16 17 18 19 20 21 22 23	this questionnaire passed peer review as well, correct? A. I don't know whether the questionnaire was reviewed or not. Q. Okay. This is published in the Journal of

Page 220 Page 218 1 and haven't thought about what they really 1 used it their whole lifetime, then what 2 want to ask and then recall bias is 2 they said between 10 and 13 agrees exactly 3 introduced and they start introducing all 3 with what they used in their whole 4 these other aspects and get all these 4 lifetime. There's no disagreement. This 5 problems are, but --5 6,438 that said they used it in the teens 6 could be the same, could be 6,438 of the Q. So this is another journal 7 that got it wrong, the Journal of 7 8,002 that used it in their twenties. We 8 Epidemiology, which said, you know, 8 have no idea --9 approved a peer-reviewed literature that 9 Q. The enrollment 10 compares the enrollment questionnaire and a 10 questionnaire --11 subsequent questionnaire in a cohort study? 11 There's no cross tables here A. I don't believe I said the 12 12 for us to know where they agree in 13 journal got anything wrong. I'm just 13 different periods or disagree. And I think 14 saying that I don't think they were good 14 O'Brien makes the statement that there is 15 designs. 15 good agreement between -- in their 2023 Okay. All right. Now, if 16 paper, that there's good agreement between 16 Q. 17 you go to O'Brien (2023), page 14, there's 17 the first survey and the later survey --18 a table, correct? 18 Honestly, I'm not even 19 A. 19 understanding your answer. Yes. 20 Q. And on page -- have you seen, 20 A. I can slow it down if --21 had you looked at this table before? 21 No, no, you don't need to O. Yeah, I've seen it. I didn't 22 slow it down. My question is, did the 23 look at it -- I don't believe I looked at 23 original questionnaire ask about use in 24 twenties and thirties? 24 it in great detail. Page 219 Page 221 1 Well, it talks about the vast 1 A. I think I already answered Q. 2 majority of the use were in the twenties 2 that, that, no, it doesn't ask specifically 3 and thirties, correct? 3 about use in twenties and thirties, but A. I don't know that the table 4 that --5 talks about anything. It provides numbers. 5 If a woman is 35 years old So it says self-reported, it 6 and only used talc in her twenties, let's 7 says "all." Okay. Use in the twenties, 7 say from age 21 to age 34, could she answer 8 8,002 people, use in the thirties, 6,416 8 the questions on the original questionnaire 9 people. Do you see it? 9 no and no and still have been a talc user? 10 10 MS. LEHMAN: Object to form. A. Yes. Now, if the earliest age of a 11 THE WITNESS: She could answer 12 woman enrolling in this study was 35 years 12 no for the period 10 to 13 and for 13 old to 75 years old, the original study 13 the past 12 months and still have 14 design, the enrollment questionnaire would 14 been a talc user in her twenties, 15 have missed this time frame by necessity, 15 for example, yes. 16 correct? 16 BY MR. TISI: 17 17 A. No. Q. Okay. Now, the data on the 18 supplemental questionnaire which was asked 18 O. Tell me a circumstance under 19 which the -- a 35-year-old woman who 19 was more comprehensive in terms of 20 enrolled -- who answered your enrollment 20 capturing lifetime use, true? Whether you 21 questionnaire correctly would be answering 21 think it was affected by recall bias or 22 about talc use in the early twenties? 22 not, it asks the question that was not Well, if they said that, yes, 23 asked in the original survey, true?

Well, I think it depends on

24

24 I used between ages 10 to 13 and then they

	Page 222		Page 224
1	what you exactly mean there, because, yes,	1	they used it in their teens. So
	it asks about the specific intervals and I	2	there is no evidence to say that
	already agreed with you it asks about these	3	there's suddenly these big
	intervals that are not asked about in the	4	differences in who used it in
	first survey. But it gives women less	5	their twenties versus who used it
	options into how to answer about each	6	in their teens and I think
	interval. They're kind of forced into a	7	O'Brien says that.
	yes-or-no situation or to not answer. And	8	BY MR. TISI:
	as such, the sort of the problems that are	9	Q. Well, O'Brien actually
	incorporated far outweigh any potential	l	move to strike your answer, which is,
	extra advantage of having the specific		again, nonresponsive
	intervals.	12	A. I did respond, again, to your
13	Q. Doctor, I'm going to move to	l	question, again. Again
	strike. That's not my question.	14	Q. But O'Brien
15	My question was, does the	15	A. The interval
	questionnaire number two ask about time	16	A. The interval
1	-	17	(Simultaneous arosatalla)
	frames beyond that of questionnaire number one?	18	(Simultaneous crosstalk.)
19	A. I've already answered your	l	BY MR. TISI:
	•	20	
	question that there are specific intervals in here	l	Q. Doctor, I move to strike.
		$\begin{vmatrix} 21\\22\end{vmatrix}$	Let's move on.
22	Q. So	l	The statement that O'Brien
23	MS. LEHMAN: Hold on. Hold		makes, the intimate care product questions
24	on. Let him finish.	24	were related to two time frames, the
1	Page 223	1	Page 225
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	THE WITNESS: for use in		original enroll questionnaire, ages 10 to
2	the twenties and thirties that were		13 and the last year, and did not capture
3	not explicitly asked in the first	l .	lifetime exposure or use during the most
4	questionnaire. But at the same		likely exposure period of ages 20 to 30
5	time, the way these questions are		years. Are they right or are they wrong?
6	asked gives women less options and	6	MS. LEHMAN: Object to form.
7	it led to differential recall	7	THE WITNESS: To be honest, I
8	bias sorry, differential bias as	8	don't know for sure that they're
9	can be seen by the proportion of	9	right or wrong, but if those, for
10	cases that didn't answer compared	10	example, here those 6,438 that said
11	to the proportion of controls that	11	they used it in their teens,
12	didn't answer. And that's really	12	although this is problematic
13	going to outweigh any of, like,	13	because it is from the second
14	what little advantage you might	14	the follow-up survey, but if you
15	gain by looking at extra intervals.	15	accepted that, then those 6,438
16	And I should say, even if	16	could be the same 6,416 that used
17	you look at these numbers here,	17	in their thirties, they could be
18	we're talking about pretty	18	the same within those that used it
19	consistent numbers across each	19	in their twenties. So it would be
20	period. And so it could just be	20	actually just asking if that's the
21	that this is essentially mostly	21	case that and O'Brien seems to
22	the same group of people that's	22	imply that it is in 2023, then that
23	saying they used in each period,	23	would be the same set all the way
24	which means they would have said	24	through.

	Page 226		Page 228
1	So if you're asking about	1	within collection of supplemental data
2	one period, then the implication		which was trying to address the question of
3	is that they're very likely to		whether or not the women had lifetime use,
4	have used through the whole	l	correct?
5	period. So, yeah, the answer	5	A. That's kind of my impression
6	is	l	of the extension of the questions, that
7	BY MR. TISI:	7	they wanted to look at that.
8	Q. You're guessing, aren't you?	8	Q. Right.
9		9	A. And my impression was that
10	MS. LEHMAN: Object to form.	l	their conclusions were that the perspective
11	THE WITNESS: I would say that	11	
12	it's not my responsibility when	l	representative of the lifetime use.
13	I look at a paper and I'm reviewing	13	Q. Right. And, of course,
14	it, I want them to demonstrate to	l	asking in a supplemental questionnaire
15	me that there's a problem. They	15	
16	should have given all the	16	-
17	information to be able to do that,	17	or potentially contradictory data and what
18	but I'm not	18	do you do, for example, if a woman dies and
	BY MR. TISI:	l	can't fill out the supplemental
20	Q. Okay.		questionnaire, correct?
21	A convinced because	21	A. I think those are important
22	O'Brien says so.	l	questions to consider, yes.
23	Q. So O'Brien (2023), if you go	23	Q. Okay. And the authors in the
24	to page 6, at the very top, it says "As	24	O'Brien (2024) addressed this data
	Page 227		Page 229
1	with douching, genital talc use was most	1	contradiction and missing data with what
2	common during ages 20 to 29," and then it	2	the authors called a quantitative bias
3	goes on to say "Average age at first use	3	analysis, which although you disagree with
4	was 21 years old, and while most women only	4	it, are described in the paper, true?
5	used prior to menopause, a 32 percent use	5	A. I disagree that it's really
6	using before and after menopause."	6	an analysis. I think it's just an
7	Do you see that?	7	imaginary what-if game.
8	A. Yes, I see that.	8	Q. Okay. But they describe
9	Q. Okay. And so what they're	9	their what-if game in the methods section
10	doing here is they're saying that when they	10	of the paper, true?
11	actually look at the use between the first	11	A. Yes.
12	and second questionnaire, the first	12	Q. Okay. And the methods that
13	questionnaire didn't capture large periods	13	they use for analyzing the data from the
14	of time, true?	14	enrollment and supplemental questionnaire,
15	A. Again, I'm sort of going back	15	the contradictory data question, and the
16	and reviewing myself, but I agree with you	16	missing data imputation are disclosed and
17	that they didn't explicitly ask about those	17	passed peer review, true?
18	intervals, but that does not mean that it	18	A. Well, they do say that the
19	did not capture their usage across lifetime	19	correction process, that the flipping of
20	by just asking about a snapshot. I'm not	20	status, they do describe that and they
21	saying that that's a good design. I think	21	do
22	the design is flawed on multiple levels.	22	Q. They describe
23	Q. Well, you know, I assume that	23	A. My brain is
101	you agree that there are potential problems	24	Q multiple

	Doca 220		Dona 220
1	A. I missed part of the	1	Page 232 would not say it's all transparent
	question. Can you repeat the whole	2	for everybody to see, because they
3		3	don't explain that.
4	Q. Sure. If you go to page 4 of		BY MR. TISI:
5	Exhibit No. 8, which is the O'Brien (2024)	5	Q. Well, but there is a section
6		_	in the paper where they say they're a
7			corresponding author, if you have any
8			questions, here's my email address, email
9	·		me, right?
	missing data, correct?	10	MS. LEHMAN: Object to form.
11	•	11	Asked and answered.
			BY MR. TISI:
12			
	bias analysis.	13	Q. And you didn't do that, true?
14	ž	14	A. I've already explained why I
15			didn't do it, because I didn't
	passed peer review, true?	16	Q. Okay.
17	, I I I	17	A. But when you write a paper,
	review and was published. Whether they		it's accepted academic practice that you
	focused in on that section or not, I don't		describe the methods and you justify your
	know.		methods. You don't just say, oh, email me
21	Q. Okay. And they put their		afterwards in case you don't know
	results of their methods on a chart on	22	Q. They did describe their
	page 7, Table 2 of the article, correct,		methods. You just don't think they did it
24	under quantitative bias analysis?	24	well enough for you, right? They described
	Page 231		Page 233
1	A. Yes, they put their results		it, on page 4, they described the
2			quantitative bias analysis, correct?
3	Q. For all the world to see,	3	A. Well, again
4	they weren't hiding anything, right?	4	MS. LEHMAN: Object to form.
5	MS. LEHMAN: Object to form.	5	THE WITNESS: I don't think
6	THE WITNESS: Oh, well, I	6	that this is kind of any kind of
7	wouldn't I don't know okay,	7	analysis, they just chose a
8	ε	8	proportion and flipped it.
9			BY MR. TISI:
10		10	Q. Okay. And they
11	don't want to ascribe motives to	11	A. It's an equation. It's not
12			an analysis.
13	• •	13	Q. And they found correcting for
14	1 , 3		missing and contradictory analysis, the
15	1	15	hazard ratio was 1.82, meaning a
16	for correction levels. I mean,	16	statistically significant increase of
17	they don't talk about how they got	17	82 percent of ovarian cancer with genital
18	to those numbers, whether they did	18	powder use, true?
19	some separate analyses, whether	19	A. I'm sorry, where are you?
20		20	Q. Four, at the bottom, ever
21	try to ascertain what those	21	use, ovarian cancer.
22	*	22	A. That's not true. That also
22		23	involves more than just their correction
23	<i>J J</i>		J

	Page 234		Page 236
1	their multiple imputation	1	Q. And then they said women who
2	Q. I said that.	l	used it in their twenties, the risk was
3	A. I'm sorry.		1.88, statistically significant, correct?
4	Q. You didn't hear my question.	4	A. Okay. Again, with the same
5	Let me read it again. Okay.	l	caveats, after during their manipulation
6	And they found after they	6	
	corrected for missing and contradictory	7	Q. And when they used it in
	data that the hazard ratio was 1.82,	'	their thirties, it was 2.08, correct?
	meaning a statistically significant	9	A. That there was their estimate
	82 percent increased risk of ovarian cancer		with their correction and imputation
	with genital powder use?	l	processes.
12	A. I object to the term that	12	Q. Now. You're not aware of any
1	they corrected it. I don't think this is a	l	scientist, other than those hired by
	correction. I think this is arbitrary		Johnson & Johnson, who have said that these
	manipulation.	l	results reached by these NIH scientists and
16	Q. I'm not asking if you agree,	16	appear in this peer-reviewed paper were
	I'm asking you that's what they reported,	17	
	right?	18	MS. LEHMAN: Object to form.
19	A. They report for their	19	Asked and answered.
20	Scenario 4, whatever you want to call it,	20	THE WITNESS: I don't know
	that the point estimate that they get for	21	that anybody has commented on these
	ever use hazard ratio is 1.82 with a	22	specific hazard ratios area in any
23	confidence interval ranging from 1.36 to	23	way at all.
	2.43 and they acknowledge that that	24	·
_			
	Page 235		Page 237
1	Page 235 contains recall bias.	1	Page 237 BY MR. TISI:
1 2		1 2	
	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right?	2 3	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the
2	contains recall bias. Q. Okay. Which, of course, they	2 3	BY MR. TISI: Q. Okay. Now, let's talk about
2 3 4	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right?	2 3 4 5	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the authors were concerned about was the possibility, in fact, just the possibility
2 3 4	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right? A. No, they don't deal with	2 3 4 5 6	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the authors were concerned about was the possibility, in fact, just the possibility of that some women who were given a
2 3 4 5	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right? A. No, they don't deal with it	2 3 4 5 6	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the authors were concerned about was the possibility, in fact, just the possibility
2 3 4 5 6 7 8	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right? A. No, they don't deal with it Q. Okay. A adequately. Q. And they also concluded that	2 3 4 5 6 7 8	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the authors were concerned about was the possibility, in fact, just the possibility of that some women who were given a supplemental questionnaire might differentially recall talc as compared to
2 3 4 5 6 7 8 9	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right? A. No, they don't deal with it Q. Okay. A adequately. Q. And they also concluded that women who used it more frequently for	2 3 4 5 6 7 8 9	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the authors were concerned about was the possibility, in fact, just the possibility of that some women who were given a supplemental questionnaire might differentially recall talc as compared to women who were not diagnosed with cancer.
2 3 4 5 6 7 8 9 10	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right? A. No, they don't deal with it Q. Okay. A adequately. Q. And they also concluded that women who used it more frequently for greater than two decades, and people who	2 3 4 5 6 7 8 9	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the authors were concerned about was the possibility, in fact, just the possibility of that some women who were given a supplemental questionnaire might differentially recall talc as compared to women who were not diagnosed with cancer. It might be the explanation for the 80 to
2 3 4 5 6 7 8 9 10 11	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right? A. No, they don't deal with it Q. Okay. A adequately. Q. And they also concluded that women who used it more frequently for greater than two decades, and people who used it in their thirties, there was a	2 3 4 5 6 7 8 9 10 11	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the authors were concerned about was the possibility, in fact, just the possibility of that some women who were given a supplemental questionnaire might differentially recall talc as compared to women who were not diagnosed with cancer. It might be the explanation for the 80 to 100 percent increased risk in ovarian
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2 3 4 5 6 7 8 9 10 11 12 13 14	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right? A. No, they don't deal with it Q. Okay. A adequately. Q. And they also concluded that women who used it more frequently for greater than two decades, and people who used it in their thirties, there was a statistically significant increased risk of greater than 2, meaning over 100 percent increased risk, true?	2 3 4 5 6 7 8 9 10 11 12 13	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the authors were concerned about was the possibility, in fact, just the possibility of that some women who were given a supplemental questionnaire might differentially recall talc as compared to women who were not diagnosed with cancer. It might be the explanation for the 80 to 100 percent increased risk in ovarian cancer in the Sister Study, true? MS. LEHMAN: Object to form. THE WITNESS: I think there's
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right? A. No, they don't deal with it Q. Okay. A adequately. Q. And they also concluded that women who used it more frequently for greater than two decades, and people who used it in their thirties, there was a statistically significant increased risk of greater than 2, meaning over 100 percent increased risk, true? A. I'm sorry, can you which one, what are we looking at here? Q. Look at table 3 on page on page 10, the long-term use greater than two decades for ovarian cancer, they have a risk of 2.01 with a confidence interval of 1.39 to 2.91, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the authors were concerned about was the possibility, in fact, just the possibility of that some women who were given a supplemental questionnaire might differentially recall talc as compared to women who were not diagnosed with cancer. It might be the explanation for the 80 to 100 percent increased risk in ovarian cancer in the Sister Study, true? MS. LEHMAN: Object to form. THE WITNESS: I think there's quite a bit to unpack in your BY MR. TISI: Q. Then I'll rephrase the question. They were concerned about the potential that these hazard ratios might be affected by recall bias, true? A. Well, I think they've
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	contains recall bias. Q. Okay. Which, of course, they deal with in the paper, right? A. No, they don't deal with it Q. Okay. A adequately. Q. And they also concluded that women who used it more frequently for greater than two decades, and people who used it in their thirties, there was a statistically significant increased risk of greater than 2, meaning over 100 percent increased risk, true? A. I'm sorry, can you which one, what are we looking at here? Q. Look at table 3 on page on page 10, the long-term use greater than two decades for ovarian cancer, they have a risk of 2.01 with a confidence interval of 1.39 to 2.91, correct?	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	BY MR. TISI: Q. Okay. Now, let's talk about recall bias, one of the things that the authors were concerned about was the possibility, in fact, just the possibility of that some women who were given a supplemental questionnaire might differentially recall talc as compared to women who were not diagnosed with cancer. It might be the explanation for the 80 to 100 percent increased risk in ovarian cancer in the Sister Study, true? MS. LEHMAN: Object to form. THE WITNESS: I think there's quite a bit to unpack in your BY MR. TISI: Q. Then I'll rephrase the question. They were concerned about the potential that these hazard ratios might be affected by recall bias, true? A. Well, I think they've

Page 238 Page 240 1 into account, didn't they? 1 because we all agree that -- before I get 2 They did some manipulations 2 there, the potential for recall bias is 3 where they looked at a few scenarios where 3 just a potential, it's a theoretic concern, 4 they did more flipping of data and they 4 correct? 5 actually get sort of inconsistent. 5 A. No, recall bias is a real Q. Well, didn't the authors --6 kind of bias. 7 7 A. But they're already starting Q. Well, how much -- well, it's 8 from this problematic area where they've 8 a real kind of bias, but whether it 9 corrected their data in this arbitrary, 9 actually exists in a particular study is 10 manipulative fashion that leads you towards 10 always a question of you have to 11 more recall bias. They add even more in 11 acknowledge, but it's a theoretic concern, 12 through the missing imputation approach --12 correct? MS. LEHMAN: Object to form. 13 Q. Got it --13 14 A. They do a little bit of that 14 THE WITNESS: It's not 15 and they just don't do enough to not quite 15 theoretic. You acknowledge it, 16 get them to be uncertain again. But it's 16 because it can be there. 17 really clear that it is uncertain. 17 BY MR. TISI: 18 It can be there, there's no Doctor, I mean, they have --18 19 this isn't the only time they looked at the 19 proof that it's there, it can be there, 20 potential for recall bias, they did it in 20 right? 21 the 2023 article, correct? 21 A. But when you are trying to 22 A. I think they discussed recall 22 demonstrate -- to determine that there is 23 bias in their 2023 article --23 an association, you are not -- the onus is 24 not on proving that it's there, the onus is 24 Q. In fact, they --Page 239 Page 241 1 1 on you to prove it's not there and it's 2 2 reliable ---(Simultaneous crosstalk.) 3 3 Perfect. Let's talk about 4 4 that, because the authors do that, don't THE STENOGRAPHER: I'm not 5 getting this, because you're 5 they? 6 talking over each over and Zoom 6 They proved they have recall 7 7 bias? No, they don't do that. just cuts it out. I don't even 8 hear it. 8 Q. Go to the douching study. It 9 finds that recall of general -- page 6. 9 BY MR. TISI: Sorry, you're going to have 10 I'm sorry. Repeat yourself, 10 Q. 11 Dr. Kornak. 11 to take me to -- what's the --12 A. I don't remember exactly what 12 Let's go to Exhibit No. 16 --Q. 13 I said. 13 A. Yup. 14 In fact, let me -- in fact, 14 Q. -- on page 6. Well, first of 15 they concluded that there wasn't much 15 all, let's start at the beginning. It says 16 evidence for recall bias, even using the 16 the conclusion of this study was that 17 supplemental questionnaire, true? 17 classification of -- and this is using both 18 A. Where do you see that 18 the recall, the follow-up question, and the 19 conclusion? 19 initial questionnaire. Do you see that in 20 O. Well, let's look at it. 20 the methods section, correct? 21 Okay. So it's --21 A. Yeah, but let's look at it. A. 22 I'm happy to look at it. 22 O. In the methods section --Q. Let's look at page 13 of the 23 Where do you see want me to 24 douching study, back in 2023, exhibit --24 look first?

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5. 442	5 44
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1 Q. In the methods section, they	1 (2024) study in order to make go from a 2 risk to a no risk?
2 actually acknowledge both the initial	
3 questionnaire and the supplemental	, ,
4 questionnaire, correct? 5 A. Yes.	4 all well, from a risk to a no from
	5 what risk to what no risk, that's
6 Q. Okay. And in their	6 Q. Actually, let me withdraw
7 conclusion, they say "Classification of	7 that question, but this isn't the only time
8 ever use in feminine hygiene products may	8 they looked at only prospective data in 9 order to see whether or not there's a
9 be recalled with good consistency." 10 Do you see that?	
	10 potential recall bias, true? 11 A. I don't know that, but there
11 A. Okay.	
12 Q. All right. And they actually	12 was a lot of earlier questions, I don't
13 go back and they actually analyze that	13 know if you wanted them answered or don't
14 question. If you go to page 6, they say	14 want them answered. You bounced around a
15 "87 percent," on the fourth paragraph down,	15 little bit.
16 "recall of genital talc use was slightly	16 Q. Let me withdraw the question.
17 less consistent than douching with	17 You would agree with me that the results of
18 87 percent of the women providing the same	18 the 23 study when they used both
19 response at follow-up as they did 20 enrollment."	19 questionnaires, they found that almost
	20 90 percent of the women answered the
21 A. You say fourth paragraph 22 down?	21 question consistently, whether or not it
	22 was prospective or retrospective, true?
23 Q. Yes. Starting with "recall," 24 it's on, recall of genital talc use was	A. I would have to remind myself with that, so what question specifically
1 24 H S OH TECAH OF SEHHALIAR HISE WAS	24 Willi mat. So what dueshon specificany
21 to on, recair of general tare use was	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Page 243	Page 245
Page 243 1 slightly less consistent when comparing it	Page 245 1 are they being consistent with or less
Page 243 1 slightly less consistent when comparing it 2 to douching, okay, with 87 percent of the	Page 245 1 are they being consistent with or less 2 consistent with? Because I'm not sure what
Page 243 1 slightly less consistent when comparing it 2 to douching, okay, with 87 percent of the 3 women providing the same response in	Page 245 1 are they being consistent with or less 2 consistent with? Because I'm not sure what 3 question you could actually use from the
Page 243 1 slightly less consistent when comparing it 2 to douching, okay, with 87 percent of the 3 women providing the same response in 4 follow-up as they did in enrollment,	Page 245 1 are they being consistent with or less 2 consistent with? Because I'm not sure what 3 question you could actually use from the 4 first questionnaire and the second
Page 243 1 slightly less consistent when comparing it 2 to douching, okay, with 87 percent of the 3 women providing the same response in 4 follow-up as they did in enrollment, 5 correct?	Page 245 1 are they being consistent with or less 2 consistent with? Because I'm not sure what 3 question you could actually use from the 4 first questionnaire and the second 5 questionnaire that would allow you to
Page 243 1 slightly less consistent when comparing it 2 to douching, okay, with 87 percent of the 3 women providing the same response in 4 follow-up as they did in enrollment, 5 correct? 6 A. Yes.	Page 245 1 are they being consistent with or less 2 consistent with? Because I'm not sure what 3 question you could actually use from the 4 first questionnaire and the second 5 questionnaire that would allow you to 6 answer this question precisely.
Page 243 1 slightly less consistent when comparing it 2 to douching, okay, with 87 percent of the 3 women providing the same response in 4 follow-up as they did in enrollment, 5 correct? 6 A. Yes. 7 Q. Okay. And so what they're	Page 245 1 are they being consistent with or less 2 consistent with? Because I'm not sure what 3 question you could actually use from the 4 first questionnaire and the second 5 questionnaire that would allow you to 6 answer this question precisely. 7 Q. Well, doctor, you reviewed
Page 243 1 slightly less consistent when comparing it 2 to douching, okay, with 87 percent of the 3 women providing the same response in 4 follow-up as they did in enrollment, 5 correct? 6 A. Yes. 7 Q. Okay. And so what they're 8 saying is at least when they compare	Page 245 1 are they being consistent with or less 2 consistent with? Because I'm not sure what 3 question you could actually use from the 4 first questionnaire and the second 5 questionnaire that would allow you to 6 answer this question precisely. 7 Q. Well, doctor, you reviewed 8 this
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1	Page 246	1	Page 248
$\frac{1}{2}$	A. But what I am stating is,		sometimes a little slow back and forth.
	what I did look at most carefully was	$\begin{vmatrix} 2 \\ 2 \end{vmatrix}$	Q. I'm not critical. I'm not
	O'Brien (2024). But I am sort of like I		critical. It says "We found that women
	can't help but ask the scientific question	1	could recall whether they ever used
	of what question were you determining		feminine hygiene products with good
	whether it's less was consistent or not?		consistency," and they were comparing both
	Because in the first, you've already told		questionnaires, right?
	me that, again, that in the first	8	A. Yeah, I agree that's what
	questionnaire, they had 10 to 13 and the		they said.
	last 12 months. Well, where in the second	10	Q. All right. But that's not
	questionnaire, can you find the matching		only the time they ever looked at that
	questions to match the first?		question, right, they looked at it in
13	Also, in the second	13	O'Brien (2024), right?
14	questionnaire, you don't even get the same	14	A. In O'Brien okay, I might
15	options for each question. So I don't see	15	want you to point to where, I'm not totally
16	how you check that. I don't see	16	sure which piece of O'Brien (2024) you're
17	Q. Well, you said that they did.	17	referring to. O'Brien (2024) is that there
18	You said they did	18	is differential recall. I mean, that's
19	MS. LEHMAN: Object to form.	19	Q. Well, except they looked at
20	THE WITNESS: I said they said	20	the subgroup of people who only asked the
21	they did. I didn't say they did.	21	question prospectively, true, which would
22	BY MR. TISI:		have been fully prospective data?
23	Q. All right. Doctor, you're	23	A. Right, yeah, so that is the
24	the expert here, I'm not. So let me ask	24	Table A2. That's the one with the
	*		
	Page 247		Page 240
1	Page 247 you this question. Let's go to page 9 of	1	Page 249
	you this question. Let's go to page 9 of		result
2	you this question. Let's go to page 9 of the douching study.	2	result Q. Well, let's see what they say
3	you this question. Let's go to page 9 of the douching study. A. So which one?	2 3	result Q. Well, let's see what they say in Table A2. Look at page 12 of the study
2 3 4	you this question. Let's go to page 9 of the douching study. A. So which one? Q. Page 9 of the douching study,	2 3 4	result Q. Well, let's see what they say in Table A2. Look at page 12 of the study and then we'll look at Table A2.
2 3 4 5	you this question. Let's go to page 9 of the douching study. A. So which one? Q. Page 9 of the douching study, Exhibit 16.	2 3 4 5	result Q. Well, let's see what they say in Table A2. Look at page 12 of the study and then we'll look at Table A2. A. So page 12 of the paper.
2 3 4 5 6	you this question. Let's go to page 9 of the douching study. A. So which one? Q. Page 9 of the douching study, Exhibit 16. A. So we're still on okay.	2 3 4 5 6	result Q. Well, let's see what they say in Table A2. Look at page 12 of the study and then we'll look at Table A2. A. So page 12 of the paper. Okay. I'm there.
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2 3 4 5 6 7 8	you this question. Let's go to page 9 of the douching study. A. So which one? Q. Page 9 of the douching study, Exhibit 16. A. So we're still on okay. Q. And comparing both the questionnaires, it says "We found that	2 3 4 5 6 7 8	result Q. Well, let's see what they say in Table A2. Look at page 12 of the study and then we'll look at Table A2. A. So page 12 of the paper. Okay. I'm there. Q. They say, on the very bottom of the left-hand side of the column it says
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	you this question. Let's go to page 9 of the douching study. A. So which one? Q. Page 9 of the douching study, Exhibit 16. A. So we're still on okay. Q. And comparing both the questionnaires, it says "We found that women could recall whether they ever used certain feminine products with good consistency? Do you see that? A. Where? Q. Third line down. A. I'm looking at the wrong page again, apologies. Q. Thank you. Look at the screen, it might be easier. A. Like I said earlier, I think I'm more comfortable reading the paper.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	result Q. Well, let's see what they say in Table A2. Look at page 12 of the study and then we'll look at Table A2. A. So page 12 of the paper. Okay. I'm there. Q. They say, on the very bottom of the left-hand side of the column it says "ever genital talc use" A. I thought, again, I'm getting, I thought maybe you were pointing to I thought you were talking about O'Brien (2024). Q. I am. On page 12 A. On the screen, I'm seeing what that doesn't look like Q. Slide down, please. A. Now I see O'Brien (2024). Q. Okay. You need to follow me, Doctor, just hold on a second. Go to
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	you this question. Let's go to page 9 of the douching study. A. So which one? Q. Page 9 of the douching study, Exhibit 16. A. So we're still on okay. Q. And comparing both the questionnaires, it says "We found that women could recall whether they ever used certain feminine products with good consistency? Do you see that? A. Where? Q. Third line down. A. I'm looking at the wrong page again, apologies. Q. Thank you. Look at the screen, it might be easier. A. Like I said earlier, I think I'm more comfortable reading the paper. Q. That's okay. I'm just saying it might be easier to find out where we	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	result Q. Well, let's see what they say in Table A2. Look at page 12 of the study and then we'll look at Table A2. A. So page 12 of the paper. Okay. I'm there. Q. They say, on the very bottom of the left-hand side of the column it says "ever genital talc use" A. I thought, again, I'm getting, I thought maybe you were pointing to I thought you were talking about O'Brien (2024). Q. I am. On page 12 A. On the screen, I'm seeing what that doesn't look like Q. Slide down, please. A. Now I see O'Brien (2024). Q. Okay. You need to follow me, Doctor, just hold on a second. Go to page 12. A. Yes.
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1	Page 250	1	Page 252
1	sentence on the left-hand side, "ever	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	THE WITNESS: No, that's not fully my position, but sorry to
	genital talc use was positively associated with ovarian cancer as a ratio of 1.82 but	$\frac{2}{3}$	
		4	interrupt. BY MR. TISI:
	showed no evidence of association pre- or	5	
	postmenopausal breast cancer or uterine cancer," correct?	6	Q. Well, it does say the fully prospective data you have for ovarian
7	·	7	cancer of 1.84, though not statistically
8	•		significant, increased risk in that
9	•	1	subgroup of people, correct? There's a
1	the last you want to focus on the first		positive association, true?
	column. I'm going to focus on the last	11	A. Well, there's, you already
	column.		pointed to part of it, it's not
13	A. Okay. Sorry.		statistically significant. It's based on a
14	· · · · · · · · · · · · · · · · · · ·		very small effective sample size here.
1	page Jeff, it's on page let's see		We're talking about 29 ovarian cancer cases
	what page it is. It's I think the last		in that part of the study. That's a tiny
	the third page from the end. Go to A2,	1	sample that, like, even statistics 101 will
	that's A1, Jeff. Okay. Now, Table 3,		tell you is very, very small.
1	Table A2, defined by exposure status	19	Furthermore, I think there
20	reported on fourth detailed follow-up and	20	is potential for recall bias here, because
21	use before then and incident cases	21	now this part, not in the same sense of
22	occurring after the time, fully	22	it's almost like a bias by indication as
23	prospective. Do you see that?	23	well here in that if you by this time
24	A. Yeah, yeah.	24	people were aware of the media stories,
	Page 251		Page 253
1	Q. That means in the first	1	even though they were entering into a
2	questionnaire, taking all people and on the	2	prospective study, the only way, at the
	second questionnaire, only those people who		beginning, we just know whether they're
	developed ovarian cancer after the		ovarian cancer cases or not, but we don't
5	questionnaire, right?		know if they have been discussing with
6			their medical doctor whether or not they
7	•		may be susceptible to ovarian cancer,
1	prospective, no recall bias, right?	1	whether they're at high risk, whether they
9	A. Oh, no, you can't guarantee	1	may have had symptoms but were not fully
	there's no recall bias there.	10	diagnosed
11	Q. I'm not asking for a	11	Q. You're guessing?
	guarantee	12	A. Sir?
13		13	Q. You're guessing, aren't you,
	but you said no recall bias, right	1	you don't know
15		15	A. My point is it's a
16	3	1	susceptibility to a bias that exists
1	guarantee a lack of recall bias.	17	Q. As is the fully
18	č	18	prospective
10	guarantees, Doctor. Okay? I'm looking at		A. I wouldn't categorize it as
	fully vour position is fully prospective	⊥ ∠U	guessing.
20	fully your position is fully prospective		
20 21	question fully prospective questions	21	(Stenographer clarification)
20 21 22	question fully prospective questions have indicia of reliability because they do	21 22	(Stenographer clarification.)
20 21 22	question fully prospective questions have indicia of reliability because they do not introduce recall bias, correct?	21	(Stenographer clarification.)

1	Dags 254		Dogs 256
1 I	Page 254 BY MR. TISI:	1	Page 256 amount of the cases, because they are
2	Q. Let's kind of back up for a	2	driving results.
3	second. You said that the number of	3	Q. Doctor, this isn't, honestly,
4	participants exposed was a small sample	4	you're not supposed to be an advocate,
5	size, correct, 31?	5	you're supposed to look at the data
6	A. I'm saying that the number of	6	independently, right?
7	cases, so when you're working with a study,	7	MS. LEHMAN: Object to form.
	like, in where you're looking at cases	8	Argumentative.
	versus non-cases, whether that it's in	9	BY MR. TISI:
	survival analysis or whether that's in	10	Q. Right?
	logistic regression, the effective sample	11	A. I agree, I'm talking
	size you have is the bigger of the two	12	Q. Okay.
	groups, the cases versus the non-cases.	13	A. All I'm doing is
14	Q. That wasn't		restating what
15	A. Twenty-nine cases, that's a	15	Q. Well, you're arguing with me.
	very small number. It's reflected by the	16	A what the review was in my
17	sheer width of the confidence interval.	17	report and
18	Q. Exactly. Exactly.	18	Q. Well, you're arguing with me.
19	A. Yes.	19	In the 2023 article, they reported that
20	Q. Gotcha. Okay. We'll looking		there was evidence that the answer about
21	for evidence of recall bias. Okay. Right?	21	talc use in the second questionnaire was
	You have O'Brien (2023) which says		consistent 90 percent of the time with
23	A. I'm sorry, you're going to		people who reported on the first
24	have to explain how we were looking at		questionnaire, right, 87 percent of the
	Page 255		Page 257
1	evidence of recall bias in O'Brien (2024).	1	time?
2	Q. Well, you're saying that only	2	MS. LEHMAN: I object to
3	the prospective data, okay, does not carry	3	counsel's commentary.
4	the potential risk, and you can't even	4	THE WITNESS: I mean, I'm just
5	guarantee that, but it carries less of a	5	going to sort of, like, say that my
	risk of recall bias than retrospective	6	answer was kind of like it depends,
7	data, correct?	7	because part of it is what
8	A. I'm just trying to think if	8	proportion
9	that's always the case, but generally it's	9	BY MR. TISI:
10	the case.	10	Q. That's what they reported,
1.1	Q. All right. And in O'Brien	11	I'm not asking you
11	(2023), they found that there was evidence	12	MS. LEHMAN: Hold on. Let him
11 12			finish I at him finish
	of a consistent answer between the first	13	finish. Let him finish.
12 13 14	and second questionnaire, correct?	14	BY MR. TISI:
12 13	and second questionnaire, correct? MS. LEHMAN: Object to form.	14 15	BY MR. TISI: Q. I'm not asking you the
12 13 14 15 16	and second questionnaire, correct?	14 15	BY MR. TISI: Q. I'm not asking you the relevance, but he's not answering my
12 13 14 15 16 17	and second questionnaire, correct? MS. LEHMAN: Object to form. THE WITNESS: That really depends on how consistent you think	14 15 16 17	BY MR. TISI: Q. I'm not asking you the relevance, but he's not answering my question. I'm asking did they report
12 13 14 15 16 17 18	and second questionnaire, correct? MS. LEHMAN: Object to form. THE WITNESS: That really depends on how consistent you think things need to be to be consistent.	14 15 16 17 18	BY MR. TISI: Q. I'm not asking you the relevance, but he's not answering my question. I'm asking did they report did they report that there was good
12 13 14 15 16 17 18 19	and second questionnaire, correct? MS. LEHMAN: Object to form. THE WITNESS: That really depends on how consistent you think things need to be to be consistent. BY MR. TISI:	14 15 16 17 18 19	BY MR. TISI: Q. I'm not asking you the relevance, but he's not answering my question. I'm asking did they report did they report that there was good correlation between the first and the
12 13 14 15 16 17 18 19 20	and second questionnaire, correct? MS. LEHMAN: Object to form. THE WITNESS: That really depends on how consistent you think things need to be to be consistent. BY MR. TISI: Q. It reported that there was	14 15 16 17 18 19	BY MR. TISI: Q. I'm not asking you the relevance, but he's not answering my question. I'm asking did they report did they report that there was good correlation between the first and the second questionnaire in terms of reporting
12 13 14 15 16 17 18 19 20 21	and second questionnaire, correct? MS. LEHMAN: Object to form. THE WITNESS: That really depends on how consistent you think things need to be to be consistent. BY MR. TISI: Q. It reported that there was A. In terms of its in terms	14 15 16 17 18 19 20 21	BY MR. TISI: Q. I'm not asking you the relevance, but he's not answering my question. I'm asking did they report did they report that there was good correlation between the first and the second questionnaire in terms of reporting
12 13 14 15 16 17 18 19 20 21 22	and second questionnaire, correct? MS. LEHMAN: Object to form. THE WITNESS: That really depends on how consistent you think things need to be to be consistent. BY MR. TISI: Q. It reported that there was A. In terms of its in terms of its effect on recall bias, what really	14 15 16 17 18 19 20 21 22	BY MR. TISI: Q. I'm not asking you the relevance, but he's not answering my question. I'm asking did they report did they report that there was good correlation between the first and the second questionnaire in terms of reporting ever use? MS. LEHMAN: Object to form.
12 13 14 15 16 17 18 19 20 21 22 23	and second questionnaire, correct? MS. LEHMAN: Object to form. THE WITNESS: That really depends on how consistent you think things need to be to be consistent. BY MR. TISI: Q. It reported that there was A. In terms of its in terms	14 15 16 17 18 19 20 21 22	BY MR. TISI: Q. I'm not asking you the relevance, but he's not answering my question. I'm asking did they report did they report that there was good correlation between the first and the second questionnaire in terms of reporting ever use?

1	Page 258 irrelevant or not, did they report that	1	Page 260 was the result of the study, but otherwise,
	there was good correlation?		I agree.
3	A. I don't know if they used the	3	Q. And if you turn to Exhibit
4	word "good," but I remember from we've just	l	No. 8, which is the O'Brien (2024) study,
5	looked at 87 percent was a number.	5	on page 13, go to page 13, please, in the
6	Q. Okay.	l	middle paragraph, the paragraph beginning
7	A. Whether you define that as		with results. The last sentence says
8	good or not depends on context	l .	"Analysis considering person-time accrued
9	Q. Okay.		since follow-up questionnaire completion
10	A. In my mind it also depends on		were not subject to recall bias, but had a
	number of cases. I'm going to ask, because		reduced sample size; estimates of the
	I think you're kind of talking to me in a		genital talc and ovarian cancer association
	rude way that I would really like a break		were consistent with a positive
	for five minutes at this point, so	l .	association," correct?
15	Q. I'm not being rude, Doctor,	15	A. I agree that's what it says.
	but you're really not answering my	16	Q. Okay. So whether you're
17		l	looking at the 2023 study or the 2024
18	MS. LEHMAN: Well, he really		study, they were reporting that there was
19	is answering your questions		good recall between the first and second
20	MR. TISI: Well, he's really		questionnaire, true?
21	not	21	A. I think what they're saying
22	MS. LEHMAN: So let's just	l	there is that the analysis so I think
23	take a break.		that was in your the table, yeah, that
24	MR. TISI: Take a break.		you were previously pointing to, so that's
-	Page 259		Page 261
1	THE WITNESS: Can we take it	1	the analysis in Table A2 on the right-hand
2	ten minutes? That would be useful.		side, they say that it's not subject to
3	MR. TISI: Sure.	l .	recall bias. They acknowledge it was a
4			reduced sample size. It's a much smaller
5	(A recess was taken at this time.)		sample size and that there was their
6			estimate of the hazard ratio, the point
	BY MR. TISI:		estimate was 1.84.
8	Q. Back on. All right. I'm	8	Q. And they make the further
9	going to slow down. I'm told I'm going	9	statement on page 13 that that evidence was
10			consistent with a positive association of
	regroup here.	11	
12	Let me ask you these two	12	A. They may make that statement.
14	•		Do you want to highlight where it is
	questions and I think we can move on if you	15	
13	questions and I think we can move on if you will agree with me that this is what the		exactly?
13 14	- ·		exactly? Q. Yes, on page 13. I have it
13 14 15	will agree with me that this is what the	14 15	•
13 14 15 16	will agree with me that this is what the authors say. Whether you agree with it or	14 15	Q. Yes, on page 13. I have it highlighted and if you could blow it up,
13 14 15 16 17	will agree with me that this is what the authors say. Whether you agree with it or not, you know, I get it. But the authors	14 15 16 17	Q. Yes, on page 13. I have it highlighted and if you could blow it up,
13 14 15 16 17	will agree with me that this is what the authors say. Whether you agree with it or not, you know, I get it. But the authors in the 2023 study says that classification	14 15 16 17 18	Q. Yes, on page 13. I have it highlighted and if you could blow it up, Jeff. Blow up the page, please. "Analyses
13 14 15 16 17 18 19	will agree with me that this is what the authors say. Whether you agree with it or not, you know, I get it. But the authors in the 2023 study says that classification of ever use of feminine hygiene products	14 15 16 17 18	Q. Yes, on page 13. I have it highlighted and if you could blow it up, Jeff. Blow up the page, please. "Analyses considering person-time accrued since follow-up question completion is not
13 14 15 16 17 18 19 20	will agree with me that this is what the authors say. Whether you agree with it or not, you know, I get it. But the authors in the 2023 study says that classification of ever use of feminine hygiene products may be recalled with good consistency, that	14 15 16 17 18 19	Q. Yes, on page 13. I have it highlighted and if you could blow it up, Jeff. Blow up the page, please. "Analyses considering person-time accrued since follow-up question completion is not
13 14 15 16 17 18 19 20	will agree with me that this is what the authors say. Whether you agree with it or not, you know, I get it. But the authors in the 2023 study says that classification of ever use of feminine hygiene products may be recalled with good consistency, that was the result of the 2023 patient study,	14 15 16 17 18 19 20	Q. Yes, on page 13. I have it highlighted and if you could blow it up, Jeff. Blow up the page, please. "Analyses considering person-time accrued since follow-up question completion is not subject to recall bias, but had a reduced sample size; estimates of genital talc use
13 14 15 16 17 18 19 20 21 22	will agree with me that this is what the authors say. Whether you agree with it or not, you know, I get it. But the authors in the 2023 study says that classification of ever use of feminine hygiene products may be recalled with good consistency, that was the result of the 2023 patient study, true?	14 15 16 17 18 19 20 21 22	Q. Yes, on page 13. I have it highlighted and if you could blow it up, Jeff. Blow up the page, please. "Analyses considering person-time accrued since follow-up question completion is not subject to recall bias, but had a reduced sample size; estimates of genital talc use
13 14 15 16 17 18 19 20 21 22 23	will agree with me that this is what the authors say. Whether you agree with it or not, you know, I get it. But the authors in the 2023 study says that classification of ever use of feminine hygiene products may be recalled with good consistency, that was the result of the 2023 patient study, true? A. I think there was a statement	14 15 16 17 18 19 20 21 22 23	Q. Yes, on page 13. I have it highlighted and if you could blow it up, Jeff. Blow up the page, please. "Analyses considering person-time accrued since follow-up question completion is not subject to recall bias, but had a reduced sample size; estimates of genital talc use and ovarian cancer association were

Page 26	2 Page 264
1 A. It is true that's what they	1 Q. Okay. The second let me
2 state. I don't know that I agree that they	2 just ask you this question. In several
3 can be certain that there's no recall bias	3 places in your report, for example,
4 at all.	4 paragraph 18, but you use it other places
5 Q. Okay. All right. So let's	5 in 28 and 54, you said the NIH scientists
6 talk a little bit about on page 14 of this	6 impute or assume whether a study subject
7 study, they say O'Brien (2024), they say	7 used genital talc for 38 percent of the
8 they overall, on the last paragraph,	8 sample, but 54 percent of the ovarian
9 "Overall, our findings support the	9 cancer cases.
10 hypothesis that there is a positive between	Do you recall that
11 genital talc use and ovarian cancer	11 statistic?
12 incidence."	12 A. I'm sorry, I remember the
Do you see that?	13 general sort of statement. But I just want
14 A. I do agree that's what it	14 to go to my report. So you said
15 states, yes.	15 paragraph 18?
16 Q. Okay. And	16 Q. Yes, that's the first place
17 A. But they do qualify that	17 where it appears. Go down please a little
18 within there, there is still uncertainty as	18 bit, keep going. Are you on page 8 of your
19 to how much recall bias and missing data	19 report?
20 could upwardly bias effect estimates, even	20 A. Yeah.
21 after doing their manipulation.	Q. "Under each of these
Q. Okay. Do you agree with the	22 scenarios, the authors," very bottom, very
23 Sister Study investigators that the	23 bottom, "Under each of these scenarios, the
24 question about lifetime use in the	24 authors impute, assume, or randomly select
Page 26	Page 265
Page 26 1 follow-up questionnaire were effectively	Page 265 1 whether or not a participant used genital
-	_
1 follow-up questionnaire were effectively	1 whether or not a participant used genital
1 follow-up questionnaire were effectively2 broader than the use information inquired	1 whether or not a participant used genital2 talc in 38 of the sample, but 54 percent of
1 follow-up questionnaire were effectively2 broader than the use information inquired3 about at enrollment?	1 whether or not a participant used genital2 talc in 38 of the sample, but 54 percent of3 the ovarian cancer cases."
 1 follow-up questionnaire were effectively 2 broader than the use information inquired 3 about at enrollment? 4 A. Not completely. I think they 	 1 whether or not a participant used genital 2 talc in 38 of the sample, but 54 percent of 3 the ovarian cancer cases." 4 Do you see that?
 1 follow-up questionnaire were effectively 2 broader than the use information inquired 3 about at enrollment? 4 A. Not completely. I think they 5 were different. There was some ways in 	 1 whether or not a participant used genital 2 talc in 38 of the sample, but 54 percent of 3 the ovarian cancer cases." 4 Do you see that? 5 A. Yes.
 1 follow-up questionnaire were effectively 2 broader than the use information inquired 3 about at enrollment? 4 A. Not completely. I think they 5 were different. There was some ways in 6 which they, obviously, asked about the 7 additional interval, so in that sense, you 8 could argue they were broader. But in 	 1 whether or not a participant used genital 2 talc in 38 of the sample, but 54 percent of 3 the ovarian cancer cases." 4 Do you see that? 5 A. Yes. 6 Q. And you cited to Table A5 in 7 O'Brien (2024) and I cannot figure out how 8 you get those numbers, so if you would tell
 follow-up questionnaire were effectively broader than the use information inquired about at enrollment? A. Not completely. I think they were different. There was some ways in which they, obviously, asked about the additional interval, so in that sense, you could argue they were broader. But in other ways, they didn't offer as many 	 1 whether or not a participant used genital 2 talc in 38 of the sample, but 54 percent of 3 the ovarian cancer cases." 4 Do you see that? 5 A. Yes. 6 Q. And you cited to Table A5 in 7 O'Brien (2024) and I cannot figure out how 8 you get those numbers, so if you would tell 9 me, I would appreciate it.
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	5. 4		D 000
1	Page 266	1	Page 268
	it's you refer to the same statistic on	1	they chose it on the basis of the states in
	page 18 paragraph 18, 28, and 54.		which they resided, true?
3	A. If you just give me a moment,	3	A. It's a bizarre question. I
	I'll be able to do it, I just need a	l	mean, the 38 percent is the sample that
	little I'm taking my glasses off because	5	they have that they did these manipulations
	the writing is small. So the eligible for	6	on.
	imputation part comes from row 4.	7	Q. Okay.
8	Q. Uh-huh.	8	A. It doesn't matter what states
9	A. And that's overall 19 and 37	9	they came from.
	in the ovarian cancer cases. Do you see	10	Q. Okay. All right. So let's
	that okay? For the so eligible for	1	talk about the kinds of
	correction, that's rows two and five. So	12	A. I want to be clear, they
	it's three overall and five in ovarian	1	didn't choose 38 percent. They took the
	cancer cases.	1	sample.
15	And for the assumed, this	15	Q. They chose the cases that
	includes rows three and 12 added together.		comprised that 38 percent and they chose
17	Q. Okay. Did the authors	17	them from nine states, correct?
	explain why they chose the 38 percent of	18	MS. LEHMAN: Object to form.
	the sample?	19	THE WITNESS: I really don't
20	A. I'm sorry, I didn't	20	see how this relates to anything.
	understand.	21	These are the
22	Q. Let me rephrase it a		BY MR. TISI:
	different way.	23	Q. Okay.
24	A. We chose a percent of the	24	A these are the controls and
	Page 267		Page 269
	sample		they had differential recall between them
2	Q. They chose they chose the	2	they had differential recall between them and they did different things in the
2 3	sample Q. They chose they chose the 38 percent of the sample that was genital	2 3	they had differential recall between them and they did different things in the controls and they did different things in
2 3 4	Q. They chose they chose the 38 percent of the sample that was genital talc use based upon the states that they	2 3 4	they had differential recall between them and they did different things in the controls and they did different things in the cases and that affects the analysis.
2 3 4 5	Q. They chose they chose the 38 percent of the sample that was genital talc use based upon the states that they resided in, true? There were nine states	2 3 4 5	they had differential recall between them and they did different things in the controls and they did different things in the cases and that affects the analysis. Q. Let's talk about
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	Page 270		Page 272
1	said they were users in the follow-up	1	state, we read the sentence that says that
1	questionnaire so that they were considered		the second questionnaire, the specific
	potentially contradictory, correct?	3	ages, age 10 and 13 and the last year and
4	A. Yes, I mean, kind of, it's	4	did not capture lifetime exposure or use
5		5	
	explicitly state what they count as	6	
	contradictory or noncontradictory, but	7	And in the previous douching
	and they do have these categorizations of	8	study, they said a woman could answer no to
9	contradictory data versus noncontradictory.	9	the first question but yes to the second
10	Q. Okay. And just so we	10	question and really not be contradictory,
11	understand that category, that category is	11	right?
12	a woman who says I am a nonuser based upon	12	A. Oh, so I do agree that it's
13	the first questionnaire, which has which	13	possible to answer no to the first
14	asks them about use between ages 10 and 13	14	question, yes to the second, and it be not
15	and a year before enrollment, right?	15	contradictory, that's correct.
16	A. Right.	16	Q. But they're considering all
17	Q. And then in a subsequent, if	17	those women, to be careful, they're
18	they answered that question no in the	18	considering all of those women to be
	original questionnaire, but in a subsequent	19	contradictory and then they apply their
	questionnaire, they say yes, that qualifies	20	analysis, which you disagree with, but
1	as contradictory, correct?	21	they're not trying to tease out which women
22	A. Here's the problem, they		tried to answer the question consistently
	they don't ask the same question. So in		or not. They're assuming they're all
24	the follow-up questionnaire, they have,	24	inconsistent, correct?
	Page 271		Page 273
1	like, 10 to 20.	1	MS. LEHMAN: Object to form.
2	like, 10 to 20. Q. Right.	2	MS. LEHMAN: Object to form. THE WITNESS: I think that's
2 3	like, 10 to 20. Q. Right. A. They ask about teens. Now,	2 3	MS. LEHMAN: Object to form. THE WITNESS: I think that's incorrect if we look, they have an
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2 3 4 5	like, 10 to 20. Q. Right. A. They ask about teens. Now, is it contradictory or is it not contradictory if they answer differently?	2 3 4 5	MS. LEHMAN: Object to form. THE WITNESS: I think that's incorrect if we look, they have an explicit category of nonuser at enrollment, user at follow-up,
2 3 4 5 6	like, 10 to 20. Q. Right. A. They ask about teens. Now, is it contradictory or is it not contradictory if they answer differently? In one way, you might argue, it's not	2 3 4 5 6	MS. LEHMAN: Object to form. THE WITNESS: I think that's incorrect if we look, they have an explicit category of nonuser at enrollment, user at follow-up, contradictory, and they have a
2 3 4 5 6 7	like, 10 to 20. Q. Right. A. They ask about teens. Now, is it contradictory or is it not contradictory if they answer differently? In one way, you might argue, it's not contradictory if their use had been between	2 3 4 5 6 7	MS. LEHMAN: Object to form. THE WITNESS: I think that's incorrect if we look, they have an explicit category of nonuser at enrollment, user at follow-up, contradictory, and they have a nonuser at enrollment, user at
2 3 4 5 6 7 8	like, 10 to 20. Q. Right. A. They ask about teens. Now, is it contradictory or is it not contradictory if they answer differently? In one way, you might argue, it's not contradictory if their use had been between the ages of 14 and 20. If their use had	2 3 4 5 6 7 8	MS. LEHMAN: Object to form. THE WITNESS: I think that's incorrect if we look, they have an explicit category of nonuser at enrollment, user at follow-up, contradictory, and they have a nonuser at enrollment, user at follow-up, and whatever. The
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	like, 10 to 20. Q. Right. A. They ask about teens. Now, is it contradictory or is it not contradictory if they answer differently? In one way, you might argue, it's not contradictory if their use had been between the ages of 14 and 20. If their use had also been between 10 and 13, it would be contradictory. We can't know that because they don't ask suitable questions. Q. And so and so A. They don't state what so you would have to make an assumption and they don't say what that is. Q. So what they're doing is if somebody says no to the first questionnaire but yes to the second questionnaire, they are assuming those women are, quote, "contradictory," even though in point of fact they might not be? A. They don't state that	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. LEHMAN: Object to form. THE WITNESS: I think that's incorrect if we look, they have an explicit category of nonuser at enrollment, user at follow-up, contradictory, and they have a nonuser at enrollment, user at follow-up, and whatever. The opposite of whatever, if I said noncontradictory, they also have a contradictory group and they also have a contradictory BY MR. TISI: Q. We'll have to forgive each other, because it is confusing, but what they're doing is they're saying, look, we're going to consider all the and we're going to employ our assumptions to the data because we are some of them are going to be noncontradictory in fact, but some of them

		Page 27
1	What I'm saying is that they're not clear	
2	on the definition of not contradictory.	

Q. Okay.

3

- 4 A. There are assumed situations
- 5 where they clearly are not contradictory,
- 6 like, in that example of the follow-up,
- 7 they said 20 to 30 and in the first one
- 8 they said, like, that they didn't use age
- 9 10 to 13 and if they're 12 months prior was
- 10 not in their twenties, then they would be
- 11 contradictory data.
- 12 Q. Right.
- 13 A. I don't know if they looked
- 14 at it in that way, so that would be not
- 15 contradictory. But when somebody says I
- 16 did use it at age 10 to 13, but then says
- 17 they or says I didn't -- the other way
- 18 around, I didn't use age 10 to 13, but I
- 19 used it between age ten to 20, is that
- 20 contradictory or not?
- Q. And that's why they do what

1 want to get to that next step. The first

2 thing is they identify two categories of

Okay. And the second one is

All right. And that would

That would be one example.

All right. And the authors

They did take some steps to

Okay. Now, you say in

23 paragraph 29 that the only truly reliable

24 data is the baseline analysis which you say

10 be, for example, we talked about it before,

11 a woman who dies between the first and

12 second questionnaire and can't fill out the

16 here separately tried to deal with those

18 contradictory and then missing data,

3 potential problems, one where there's

7 where there's missing data, correct?

4 potential contradiction, true?

Yeah.

Yes.

13 second questionnaire, correct?

17 two potential problems, right,

5

6

8

9

14

15

20

A.

O.

A.

Q.

A.

A.

21 try and do that.

- 22 they do, right, they acknowledge --
- A. They -- sorry.
- Q. Right, but, again, I don't

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- 1 is relegated to Table 2, which is the first
- 2 column, which is fully prospective, right?
 - A. Yes.

3

4

14

- Q. Okay. And you describe that
- 5 in your paragraph 30 of your report, you
- 6 say that "O'Brien's baseline analysis has
- 7 two distinguishing features. First, it
- 8 uses only prospective information to assign
- 9 women to ever or never genital talc use,"
- 10 and "Second that the baseline analysis
- 11 omits the smaller number of women who are
- 12 missing enrollment surveys about genital
- 13 talc use entirely," right?
 - A. Correct.
- 15 Q. All right. But there's a
- 16 third distinguishing factor between the
- 17 first and second questionnaire, and the one
- 18 that the authors highlight in their report,
- 19 correct, in their study, and that is that a
- 20 woman can answer the second questionnaire
- 21 yes and the first questionnaire no, and not
- 22 really be contradictory about how had they
- 23 ever used -- whether they ever used talc,
- 24 correct?

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- 1 A. I don't think that's -- I
 - 2 recall that as a distinguishing feature.
 - 3 Q. They're two completely
 - 4 different sets of questions, one was
 - 5 limited and one was -- tried to capture
 - 6 lifetime use, right?
 - 7 A. I think there were two
 - 8 different sets of questions that were not
 - 9 well aligned and -- but I wouldn't call
 - 10 that a distinguishing feature of the
 - 11 baseline analysis.
 - 12 Q. Okay. But they are
 - 13 different, right? So the distinguishing
 - 14 feature between the first and second
 - 15 questionnaire is the second questionnaire
 - 16 tried to get lifetime use and that's what
 - To tried to get metime use and that's what
 - 17 the authors said they were trying to get,
 - 18 right?
 - 19 A. I don't recall exactly what
 - 20 the authors said, but they clearly looked
 - 21 at different -- clearly had different
 - 22 intervals within their follow-up survey.
 - 23 It was more limited in some respects, but
 - 24 it was more -- it had more intervals, but

70 (Pages 274 - 277)

Page 277

19 correct?

	D 070		D 200
1	Page 278 they were different.	1	Page 280 data but assumes they were all unexposed,
$\frac{1}{2}$	•	$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	correct?
- 1	•	_	
	the contradictory data portion of the	3	A. So correct contradictory
	analysis that they did, the bias analysis	4	data, assume unexposed if unexposed at
- 1	that they did, okay?	5	enrollment plus missing at follow-up.
6		6	Q. So that's the outer range of
7	8	7	contradictory data, so everybody is who
	actually fell in that category, women that	8	reported nonuse at enrollment, but use
	reported use they reported no use based		later was actually nonusers, correct?
	upon the limited questionnaire 10 to 13 and	10	MS. LEHMAN: Object to form.
	a year before enrollment and the subsequent	11	THE WITNESS: Maybe I'm
	questionnaire which talked about use	12	misunderstanding.
	various time periods in their lifetime?	1	BY MR. TISI:
14	ř	14	Q. That's what it says, it says
	refresh my memory, because I don't remember		"correct contradictory data on assumed
	the exact numbers. It's probably easiest	1	unexposed if unexposed at enrollment."
	to get it out. So I'm looking at Table A5,		That's what the column says, right and
	the last page of the exhibit, the O'Brien	1	missing at follow-up?
	paper, if you can put that up on the	19	A. That's what the column says,
	screen. Unfortunately, the font is a		yes.
- 1	little small.	21	Q. Okay. And the outer limit,
22	2		assuming everybody is not exposed, everyone
23	A. So and the relevant rows for		did not take talc, right, where there was
24	correction are rows two and row row 2	24	contradictory data, the risk was 1.17,
- 1			
	Page 279		Page 281
	Page 279 and row 5.	1	Page 281 although not statistically significant,
	and row 5.	1	<u> </u>
1	and row 5. Q. And how many patients how	1	although not statistically significant,
1 2	and row 5. Q. And how many patients how many women are there?	2	although not statistically significant, right?
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24 follow-up and people who were, you assume,

24 Table 2, Table 2 corrects contradictory

4	Page 282		Page 284
I	that they were always users and that's the	1	bias read potential.
	bracket, right, 1.17 to 3.34, that's what	2	BY MR. TISI:
	they talked about in categories three	3	Q. And so they asked in a
	two and three, right?	4	subsequent a subsequent questionnaire
5	A. I disagree with that on a	5	• • •
6	couple of levels. So even if you accepted	6	A. And, you know
7	the premise that these were extreme	7	Q. I'm just asking
8	bracketing scenarios, which I don't, and	8	A. I don't think it covers the
9	I'll explain in a second, you really have	9	complete lifespan, I think there's
	to look at the extremes of the confidence	10	Q. Okay. But it covers
11	intervals which tell you about the	11	A. There's a wider lifespan I
12	plausible range of values. So we're really	12	would agree with.
13	going from .92 to 4.44 if you take that	13	Q. All right. Let's say that.
14	whole thing as an extreme.	14	Just follow me here. Let me ask the
15	But there's already the	15	question and then if you need to explain
16	contradictory data correction here that	16	it, we'll do that. Okay?
17	already brings in some bias in the upward	17	A. Okay.
18	direction. You can see that because	18	Q. You have a second
19	Scenario 1 is lower with 1.07 and that in	19	questionnaire which raises the possibility
20	turn brings in with its point estimate	20	that people who were originally classified
21	and that in turn brings in some bias of its	21	as nonusers were actually users, right?
22	own. And if you go back even further, you	22	A. It does raise the
23	go to Table A2 and that's the 1.02	23	possibility.
24	Q. But doesn't	24	Q. Okay. So how would you
	Page 283		Page 285
1	A. The only one we can be sure	l .	just follow me, okay, how would you as a
2	of, the one we can most sure of is not	l .	scientist have dealt with that question,
3	$\boldsymbol{\varepsilon}$	l	because it raises the question as to
	manipulations and adjustments is Table A2.	l	whether or not whether or not the
5	Q. Well, except Table A2		original Gonzalez study was actually
6	A. Why ruin a perfectly good	6	
1 _			really was ever use, right? And so now you
1	analysis by throwing	7	have data which indicates that people,
8	Q. I'll tell you why	7 8	have data which indicates that people, women may have actually used talc through
8 9	Q. I'll tell you whyA your calculations in?	7 8 9	have data which indicates that people, women may have actually used talc through no fault of their own, right, but not
8 9 10	Q. I'll tell you whyA your calculations in?Q. I'll tell you why. Let me	7 8 9 10	have data which indicates that people, women may have actually used talc through no fault of their own, right, but not reported it, because of the way the
8 9 10 11	Q. I'll tell you why A your calculations in? Q. I'll tell you why. Let me give you a hypothetical as to why. We all	7 8 9 10 11	have data which indicates that people, women may have actually used talc through no fault of their own, right, but not reported it, because of the way the questions were asked. So what would you
8 9 10 11 12	Q. I'll tell you why A your calculations in? Q. I'll tell you why. Let me give you a hypothetical as to why. We all agree, I think we agreed at the outset,	7 8 9 10 11 12	have data which indicates that people, women may have actually used talc through no fault of their own, right, but not reported it, because of the way the questions were asked. So what would you do? Would you just throw out the study?
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8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. I'll tell you why A your calculations in? Q. I'll tell you why. Let me give you a hypothetical as to why. We all agree, I think we agreed at the outset, that the original questionnaire did not ask for lifetime use, right? MS. LEHMAN: Object to the commentary. THE WITNESS: The original questionnaire asked specifically about ages 10 to 13 and the last 12 months. If they wanted to look at something different, it's unfortunate they didn't do a good	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	have data which indicates that people, women may have actually used talc through no fault of their own, right, but not reported it, because of the way the questions were asked. So what would you do? Would you just throw out the study? Would you throw out the subsequent questionnaires? What would you do? A. Oh, well, I mean, what I would have done as a scientist, I mean, obviously, I'm sitting here in a position where I can retrospectively pontificate about what I would have done. But the first sort of, like, statement in response to that is why you really ought to have designed the study in the first place to
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Page 286 Page 288 1 specified analysis, plan, experimental 1 Now, if somebody wants to 2 design. That's why you go through all of 2 say, and just because you say I think 3 that thinking and you say we need to make 3 lifetime exposure is a more important 4 sure we have the questions that will answer 4 question, it's not a reason to withdraw a 5 the question you want to answer. 5 paper. 6 Now, let's deal with reality. Q. Okay. 7 7 Once you found out that the original I think there could have been 8 questionnaire doesn't ask the questions 8 a better study design and that can be 9 that you thought that it answered, and you 9 argued, but it's not that the paper is 10 find out through a subsequent questionnaire 10 fundamentally wrong in what it's saying. 11 that maybe a lot more people used talc than But what they could do is 11 12 originally reported, what would you have 12 what they did, right, they published a 13 subsequent paper that published the data on 13 done? 14 Okay. So, yeah, well, I kind 14 the follow-up questionnaire and discussed A. 15 of have difficulties with that question, 15 the pros and cons of potential recall bias, 16 right? 16 again, on a few levels. 17 First of all, you know, 17 They published a follow-up A. 18 unfortunately the way science works is that 18 paper and I think I'm very clear in my 19 report with what the problems are with this 19 you can only answer what you can set up for 20 your design, your study, your data to 20 follow-up paper. Again, you're trying to 21 solve a problem that I understand they want 21 answer and if you mess things up in the 22 first place and circumstances change, there 22 to sort of be able to get at an analysis 23 may not be a way to get at a clean answer 23 that looks more at -- across a wider 24 that you want to get to and that's just --24 lifespan, but if you just throw garbage Page 287 Page 289 1 So should they have 1 into that to try to answer the question, Q. 2 withdrawn, should the authors in your 2 you're just going to get garbage out. 3 opinion have withdrawn Gonzalez 2016 3 That's just the way it is. 4 because it created a wrong impression? 4 Q. Okay. So you think the 5 A. Sorry, what did I say? Did I 5 subsequent questionnaire, to use your 6 phrase, was just garbage? 6 say --7 Do you think that the authors 7 No, I think what's garbage --8 should have either withdrawn the Gonzalez 8 I think it was not -- what's garbage is the 9 study or published -- retracted it or 9 level of missing data, the level of 10 published a statement that said that study 10 imputation, the level of this switching of 11 may not have considered the entire lifetime 11 data, all of these manipulations, they're 12 use of women and we don't -- we don't 12 not --13 represent that as being an entire lifetime 13 Q. Let's talk about missing 14 use of the women in the Sister Study? 14 data --15 Yeah, I don't want to -- we 15 You want good data. You A. 16 can look at exactly what the wording is in 16 don't want to have to do all that to the 17 Gonzalez, but I think it very clearly 17 data to the level they do.

So you talked about

Now, the missing data would

19 contradictory data and let's talk about

20 missing data and that's where they use

24 concern two categories, as I see it, a

21 multiple imputation, correct?

A.

Q.

18

22

23

24 wrong.

18 states what the questionnaire asks, that

20 of use and it's a report that analyzes the

21 difference between exposed versus not

23 I don't think scientifically that's not

22 exposed, I mean, exposed in the paper. So

19 it's asking about 10 to 13 versus last year

	D 400		D 000
1	Page 290 woman who said they were nonusers on	1	MS. LEHMAN: Object to form.
	enrollment or were missing a baseline, but	$\frac{1}{2}$	THE WITNESS: I mean, I don't
	who for various reasons, including death,	$\frac{2}{3}$	recall exact words
	didn't respond to the second questionnaire	-	BY MR. TISI:
		l	
1	so the data on lifetime use was missing; is that right?	5	Q. Let's look at paragraphA. I don't doubt it I
6 7	•	7	potentially did refer to it as guessing.
		0	Because there's an element of it that is
8 9		l	guessing, yes.
	Q. Well, there was at least one woman	10	Q. Well, it's using statistical
11	A. What's missing is whatever	l	methods to predict whether or not somebody
1	they've recorded at follow-up.		would be a user or a nonuser, right? It's
13	Q. Well, at least one woman had		not guessing, correct?
	been missing in baseline as well, right?	14	A. If you have if you're
15	A. I think if they were missing	l	trying to predict something and you have
	both at baseline and at follow-up, they		either very slightly related or bias
	would just impute it at random for some	17	
	reason.	l	using to predict that data, that's a guess.
19	Q. Now, the NIH authors deal	19	Q. Well, wouldn't it also be a
1	with this missingness in Scenario 4 of	l	guess if somebody answered on the initial
1	Table 2 through the multiple imputation		questionnaire that they were a nonuser
	method that we talked about earlier that is		based upon the two limited categories, the
1	something that is recognized in the		four years of a 74-year-old woman that they
1	statistical literature, correct?		were nonusers based upon the original

	Page 201		Page 202
1	Page 291 MS_LEHMAN: Object to form	1	Page 293
1 2	MS. LEHMAN: Object to form.		questionnaire, that would be a guess,
2	MS. LEHMAN: Object to form. THE WITNESS: Multiple	2	questionnaire, that would be a guess, right?
2 3	MS. LEHMAN: Object to form. THE WITNESS: Multiple imputation as a method is in the	3	questionnaire, that would be a guess, right? MS. LEHMAN: Object to form.
2 3 4	MS. LEHMAN: Object to form. THE WITNESS: Multiple imputation as a method is in the statistical literature, it's a	2 3 4	questionnaire, that would be a guess, right? MS. LEHMAN: Object to form. THE WITNESS: I'm sorry, are
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2 3 4 5 6	MS. LEHMAN: Object to form. THE WITNESS: Multiple imputation as a method is in the statistical literature, it's a method for imputing missing data. But I think you linked it with the	2 3 4 5 6	questionnaire, that would be a guess, right? MS. LEHMAN: Object to form. THE WITNESS: I'm sorry, are you saying that BY MR. TISI:
2 3 4 5 6 7	MS. LEHMAN: Object to form. THE WITNESS: Multiple imputation as a method is in the statistical literature, it's a method for imputing missing data. But I think you linked it with the first part of the question and I'm	2 3 4 5 6 7	questionnaire, that would be a guess, right? MS. LEHMAN: Object to form. THE WITNESS: I'm sorry, are you saying that BY MR. TISI: Q. Let me give you a
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. LEHMAN: Object to form. THE WITNESS: Multiple imputation as a method is in the statistical literature, it's a method for imputing missing data. But I think you linked it with the first part of the question and I'm not sure what the connection is. BY MR. TISI: Q. Well, you're not critical of multiple imputation methodology as a general matter, you're just critical of the way in which the authors used it in this case, right? A. I'm critical of the appropriateness of extrapolating so much data and with in coming up with and then relying on those results from the Q. I'm sorry. You repeatedly say throughout your report, and I don't know how many times, but you repeatedly	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	questionnaire, that would be a guess, right? MS. LEHMAN: Object to form. THE WITNESS: I'm sorry, are you saying that BY MR. TISI: Q. Let me give you a hypothetical A. If you were trying to predict whether somebody used it at age 74 based on a question Q. No, let me let me withdraw the question and give you a hypothetical. A 74-year-old woman enters the study at baseline, I did not use it between 10 and 13 and I did not use it at age 73 to 74, right? A. Okay. Q. If you do not use multiple imputation or some method to try to deal with the missingness question, let's say
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	MS. LEHMAN: Object to form. THE WITNESS: Multiple imputation as a method is in the statistical literature, it's a method for imputing missing data. But I think you linked it with the first part of the question and I'm not sure what the connection is. BY MR. TISI: Q. Well, you're not critical of multiple imputation methodology as a general matter, you're just critical of the way in which the authors used it in this case, right? A. I'm critical of the appropriateness of extrapolating so much data and with in coming up with and then relying on those results from the Q. I'm sorry. You repeatedly say throughout your report, and I don't know how many times, but you repeatedly said they guess and they assume genital	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	questionnaire, that would be a guess, right? MS. LEHMAN: Object to form. THE WITNESS: I'm sorry, are you saying that BY MR. TISI: Q. Let me give you a hypothetical A. If you were trying to predict whether somebody used it at age 74 based on a question Q. No, let me let me withdraw the question and give you a hypothetical. A 74-year-old woman enters the study at baseline, I did not use it between 10 and 13 and I did not use it at age 73 to 74, right? A. Okay. Q. If you do not use multiple imputation or some method to try to deal with the missingness question, let's say she dies, okay, aren't you guessing that

	Page 294		Page 296
1	A. If you were doing an analysis	1	Q. I understand. I understand.
2	between ages 13 and 73	2	A. You're trying to make me do a
3	Q. Right. So	3	comparison between
4	A you would be	4	Q. No, no, no. I'm not. I'm
5	MS. LEHMAN: Hold on. Hold	5	really not. I'm asking a very specific
6	on. Let me him finish.	6	question. With regard to missingness,
7	THE WITNESS: But there is no	7	forget about all the other problems you
8	analysis between those ages and		think permeated this data, let's deal with
9	then the analysis at baseline is	9	missingness alone, don't you agree with me
10	very consistent across everybody.	10	that it would be arbitrary to assume in
11	It's asking the same question as		category in Scenario 2 that all those
12	everybody. It's not this is	12	women would be nonusers as arbitrary as
13	where kind of the whole problem	13	saying in category three all the women
14	here is they're trying to combine	14	would be users?
15	information from Scenario 1 that	15	MS. LEHMAN: Object to form.
16	asks one set of questions with	16	THE WITNESS: No, because
17	information from Scenario 4 that	17	here's the problem, what's your
18	has a whole bunch of missing data	18	definition of a nonuser and a user
19	with different questions. They're	19	here?
20	trying to glue that together and		BY MR. TISI:
21	it's like trying to fit a square	21	Q. Lifetime use. Lifetime use.
22	peg in a round hole. It doesn't	22	Somebody who uses it lifetime but we have
23	work.		missing data.
24		24	A. All right. So what do you
	Page 295		Page 297
	BY MR. TISI:		have here, what do you have to answer that
	Q. Isn't it true that the		
2			question?
3	statistical literature says that it is	3	Q. You have multiple imputation,
	simply wrong to assume somebody is, in this	3 4	Q. You have multiple imputation, which is what the authors did.
3 4 5	simply wrong to assume somebody is, in this case, for example, a nonuser, that multiple	3 4 5	Q. You have multiple imputation, which is what the authors did. A. No, no
3 4 5 6	simply wrong to assume somebody is, in this case, for example, a nonuser, that multiple imputation, for example, is a much more	3 4 5 6	Q. You have multiple imputation, which is what the authors did. A. No, no Q. So well, let me ask you
3 4 5 6 7	simply wrong to assume somebody is, in this case, for example, a nonuser, that multiple imputation, for example, is a much more credible way of dealing with missing data	3 4 5 6 7	Q. You have multiple imputation, which is what the authors did. A. No, no Q. So well, let me ask you this.
3 4 5 6 7 8	simply wrong to assume somebody is, in this case, for example, a nonuser, that multiple imputation, for example, is a much more credible way of dealing with missing data in that scenario?	3 4 5 6 7 8	Q. You have multiple imputation, which is what the authors did. A. No, no Q. So well, let me ask you this. A. You asked me a question and
3 4 5 6 7 8 9	simply wrong to assume somebody is, in this case, for example, a nonuser, that multiple imputation, for example, is a much more credible way of dealing with missing data in that scenario? A. I totally did not understand	3 4 5 6 7 8 9	Q. You have multiple imputation, which is what the authors did. A. No, no Q. So well, let me ask you this. A. You asked me a question and you didn't let me answer.
3 4 5 6 7 8 9 10	simply wrong to assume somebody is, in this case, for example, a nonuser, that multiple imputation, for example, is a much more credible way of dealing with missing data in that scenario? A. I totally did not understand that question.	3 4 5 6 7 8 9 10	Q. You have multiple imputation, which is what the authors did. A. No, no Q. So well, let me ask you this. A. You asked me a question and you didn't let me answer. Q. Okay. Well, go ahead, finish
3 4 5 6 7 8 9 10 11	simply wrong to assume somebody is, in this case, for example, a nonuser, that multiple imputation, for example, is a much more credible way of dealing with missing data in that scenario? A. I totally did not understand that question. Q. Well, would you agree with	3 4 5 6 7 8 9 10 11	Q. You have multiple imputation, which is what the authors did. A. No, no Q. So well, let me ask you this. A. You asked me a question and you didn't let me answer. Q. Okay. Well, go ahead, finish the answer.
3 4 5 6 7 8 9 10 11 12	simply wrong to assume somebody is, in this case, for example, a nonuser, that multiple imputation, for example, is a much more credible way of dealing with missing data in that scenario? A. I totally did not understand that question. Q. Well, would you agree with me, let's it would be arbitrary, let's	3 4 5 6 7 8 9 10 11 12	Q. You have multiple imputation, which is what the authors did. A. No, no Q. So well, let me ask you this. A. You asked me a question and you didn't let me answer. Q. Okay. Well, go ahead, finish the answer. A. Right, so you have a
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	simply wrong to assume somebody is, in this case, for example, a nonuser, that multiple imputation, for example, is a much more credible way of dealing with missing data in that scenario? A. I totally did not understand that question. Q. Well, would you agree with me, let's it would be arbitrary, let's use this to be specific, would you agree that it would be arbitrary to assign all women in the Sister Study as either lifetime talc nonusers as was done in Scenario 2 or lifetime talc users as was done by the authors in Scenario 3, just assign them	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	Q. You have multiple imputation, which is what the authors did. A. No, no Q. So well, let me ask you this. A. You asked me a question and you didn't let me answer. Q. Okay. Well, go ahead, finish the answer. A. Right, so you have a baseline. You have relatively complete data, but it is only answering, as you say, 10 to 13 and the last year, but it's relatively complete. At follow-up, you have highly incomplete data, you have so much missing data, and it's not missing at random, and multiple imputation is not
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	simply wrong to assume somebody is, in this case, for example, a nonuser, that multiple imputation, for example, is a much more credible way of dealing with missing data in that scenario? A. I totally did not understand that question. Q. Well, would you agree with me, let's it would be arbitrary, let's use this to be specific, would you agree that it would be arbitrary to assign all women in the Sister Study as either lifetime talc nonusers as was done in Scenario 2 or lifetime talc users as was done by the authors in Scenario 3, just assign them A. I mean	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	Q. You have multiple imputation, which is what the authors did. A. No, no Q. So well, let me ask you this. A. You asked me a question and you didn't let me answer. Q. Okay. Well, go ahead, finish the answer. A. Right, so you have a baseline. You have relatively complete data, but it is only answering, as you say, 10 to 13 and the last year, but it's relatively complete. At follow-up, you have highly incomplete data, you have so much missing data, and it's not missing at random, and multiple imputation is not going to get you to the right answer,
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	simply wrong to assume somebody is, in this case, for example, a nonuser, that multiple imputation, for example, is a much more credible way of dealing with missing data in that scenario? A. I totally did not understand that question. Q. Well, would you agree with me, let's it would be arbitrary, let's use this to be specific, would you agree that it would be arbitrary to assign all women in the Sister Study as either lifetime talc nonusers as was done in Scenario 2 or lifetime talc users as was done by the authors in Scenario 3, just assign them A. I mean Q missing data?	3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. You have multiple imputation, which is what the authors did. A. No, no Q. So well, let me ask you this. A. You asked me a question and you didn't let me answer. Q. Okay. Well, go ahead, finish the answer. A. Right, so you have a baseline. You have relatively complete data, but it is only answering, as you say, 10 to 13 and the last year, but it's relatively complete. At follow-up, you have highly incomplete data, you have so much missing data, and it's not missing at random, and multiple imputation is not going to get you to the right answer, because you do not have a completely

	Daga 200		Page 300
1	Page 298 Q. We'll talk about that	1	Do you agree with that?
2	A random. You do not have	2	A. Yes.
3	predictors outside of your outcome that are	3	Q. Okay. Now at the end of this
4	predictive of whether or not somebody is	4	sentence, at the end of the paragraph, it
5		5	says "When missing data occur, it is
		6	important not to exclude cases with missing
	missingness in cases versus controls. That	l	information (analyses after such exclusion
8		8	are known as complete case analyses)."
	can't do this. You can't get away this and	9	Do you see that?
	have a reasonable analysis. You can't come	10	A. I see that's what it states.
	up with reliable numbers based on that.	11	Q. Do you agree with that? You
12	_	12	don't exclude them?
		13	
13	A. So I understand that you		A. I think it's important not to blindly exclude them.
	don't believe that the analysis in A2 is	14	3
	answering the question you want to answer,	15	Q. Okay. It goes on to say
	but neither is the data that you can't	16	A. I do not agree with this
	get there with this incomplete, poorly		statement overall. I think it's missing
	acquired data that has differential		that qualifier.
	missingness, all kinds of biases thrown in,	19	Q. Okay. They go on to say
	and do these contradictory manipulations		"Single-value imputation methods are those
21	and kind of solve the problem and it goes		that estimate what each missing value might
22	,		have been and replace it with a single
23	Q. Let's look at Exhibit No. 21	l	value in the data set.
24	and see if you will agree with this. This	24	"Single-value imputation
1	Page 299		Page 301
1	is a "JAMA Guide to Statistics and Methods,	1	methods include mean imputation, last
2	Multiple Imputation, A Flexible Tool for	2	observation carried forward, and random
3	Handling Missing Data by Li, Stewart, and	3	imputation."
4		4	Do you see that?
5	Do you see that?	5	A. Yes.
6	A. Yes, I see the page.	6	Q. Do you agree with that?
7		7	A. Yes, I mean, there's
8	(JAMA Article marked Kornak		potentially other ways to do it as well,
9	Exhibit 21 for identification.)		but those are examples of single value
10		l	imputation.
	BY MR. TISI:	11	Q. It goes on to say "These
12	Q. And have you seen this paper	12	approaches can yield biased results and are
	before?		suboptimal. Multiple imputation better
14	A. I actually don't recall		handles missing data by estimating and
	whether I've seen it before or not. I		replacing missingness missing values
16	don't remember it.	l	many times."
17	Q. Could you blow it up, please,	17	Do you see that?
	Jeff?	18	A. I do see that.
19	MR. WRIGHT: It should be	19	Q. Do you agree with that
20	there.	20	generally speaking?
21	BY MR. TISI:	21	A. Even a simplistic way, but
22	Q. It's not. I can't see it.	22	there's sort of caveats as to when that
23	It says, if you look at Exhibit No. 21, it	23	completely holds.
	says "Missing data are common in research."	24	Q. Okay. Let's go to the next

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	Page 302		Page 304
1	page. It says "What are the limitations of	1	manipulate too filling these gaps
	Multiple Imputation?" First of all, have	2	in the data.
3	you ever written a paper like this where	3	BY MR. TISI:
4	you talk about the method of multiple	4	Q. You're basically saying they
5	imputation?	5	didn't trust the women when they answered
6	MS. LEHMAN: Objection. Asked	6	
7	and answered.	7	to deal with the missingness question,
8	THE WITNESS: Well, I would		right?
9	argue this is not really this is	9	A. I don't I think that
10	kind of an opinion piece and no,	10	mischaracterizes what I state. I mean, I
11	I'm not in the practice of writing	11	think, like, they clean data a baseline
12	opinion pieces.	12	that is relatively complete. They impute
13	BY MR. TISI:	13	data at follow-up and they do it in a way
14	Q. Okay. Well all right.		where they're taking people that said they
15	It's actually, it says it's a JAMA Guide to	15	never used at baseline and they're using an
16	Statistics and Methods, but we'll let it	16	imputation approach that incorporates
17	stand what it is.	17	recall bias from the follow-up study that
18	A. No, I would say that's just	18	they're using to build the multiple
19	the journal name, right? It's not the	19	imputation model and then they're kind of
20	title of the paper or	20	baking that into their imputation process.
21	Q. Okay. The paragraph on the	21	Q. Right. Okay. And what
22	left side, says "Many nonstatisticians		you're saying is they should have just
23	chafe at making up data," that's what	23	trusted the women who answered I didn't use
24	you're accusing the authors here of doing,	24	it at 10 to 13, and the year before, and
	Page 303		Page 305
	right, making up data?		assume that they were nonusers, right?
2	MS. LEHMAN: Object to form.	2	A. I don't believe I'm even
3	THE WITNESS: What I'm	3	saying that. I'm suggesting that the whole
4	accusing that the and accusing		follow-up analysis is flawed because of the
5	is not the right word, I'm, when		level of missing data, the level of bias
6	criticizing the paper and saying		that's in there. It's just too problematic
7	that there was data manipulation,		to fix.
8	improper imputation, and assumption	8	Q. Okay.
9	that were beyond reasonable.	9	A. Not at missing, not at random
	BY MR. TISI:	l	situation, that's basically where you are,
11	Q. Well, you go actually further	11	•
	than that, Doctor, and to be clear, I mean,	12	Q. Let's read this paragraph and
	just to be fair, you say, you know, they don't trust the women on their original		see what you think about it. It says "Many
	questionnaire and that they impute data in		statisticians chafe at making up data as is done in MI and note that the validity of
	the study based upon not missingness in the		MI, multiple imputation, depends on an
17	second questionnaire that they never filled	17	
	out, right?	l	the probability that a data point is
19	A. They kind of do, yes, some		missing. Because of concern this
	kind of manipulation	20	
21	Q. Okay. So you think	21	
22	MS. LEHMAN: Hold on. Hold	l	case analysis, i.e., only analyze the
23	on. Let him finish.		participants without missing values."
24		24	Isn't that what you're
24	THE WITNESS: And they do	24	Isn't that what you're

	Page 306		Page 308
1	saying, just look at the women who just	1	from the data, true?
	look at the women who answered the	2	A. Only if that information is
	question	3	explanatory about your missingness in a way
4	A. That's not what I'm saying.		that's unbiased and reasonable. If it
5	Q. Okay. "The safe haven is	5	was if it did it as you describe
6	however, illusory. Although rarely made	1	perfectly, we wouldn't need to collect all
7	explicit by the users, complete case	7	the data, we would just collect parts of
8	analysis requires a far more restrictive	8	data and just fill it all in with multiple
9	assumption: That any data point missing is	9	imputation. Clearly, it's better to have
10	missing completely at random. Other common	10	complete data.
	strategies, mean imputation, last	11	Q. Well, but you can't
12	observation carried forward and other	12	A. You're always losing when you
	single imputation approaches underestimate	1	have to start imputing, and when you have
	standard errors by ignoring or		to impute a lot, you get into a lot of
	underestimating the inherent uncertainty		trouble.
	created by missing data, a problem multiple	16	Q. I mean, look, in fairness,
	imputation helps overcome."	1	most missing data was because women died as
18	Do you agree with that?	1	a result of ovarian cancer, correct?
19	A. I agree there are certain	19	A. I mean, I don't know what
	situations where that is true, that		proportion of the missing, the differential
	multiple imputation certainly helps	1	missingness of the cases was due to people
22 23	Q. Now, you criticizedA but there are real	1	dying. I have no doubt that some
		1	proportion of that at least would be because of that. It doesn't change the
24	problems here with using it. I think where	24	
1	Page 307 I think it mischaracterizes what I'm	1	Page 309 fact that, and that's unfortunate,
$\frac{1}{2}$	suggesting is that I'm not suggesting that		obviously, it's terribly unfortunate, but
3	they treat the follow-up analysis as a	1	in terms of the analysis, it still leaves
4		4	you in trouble.
	would also be terrible. That would be like	5	Q. So one of the big criticisms
	Scenario 5, it would be awful.	1	you have, as I read it, for example, in
7	Scenario 1, however, has		•
Q		/	paragraph 44, but in your circular logic
0	many more missing data and even though		paragraph 44, but in your circular logic section of your report, is that the authors
	many more missing data and even though O'Brien with that missing data effectively	8	paragraph 44, but in your circular logic section of your report, is that the authors included outcome status or cancer status in
9		8 9	section of your report, is that the authors
9	O'Brien with that missing data effectively	8 9	section of your report, is that the authors included outcome status or cancer status in
9 10	O'Brien with that missing data effectively treats it as if it was complete case analysis for that missing data, because	8 9 10	section of your report, is that the authors included outcome status or cancer status in their imputation model; is that true? A. Yes.
9 10 11 12	O'Brien with that missing data effectively treats it as if it was complete case analysis for that missing data, because they just basically impute based on those proportions at random. That's equivalent	8 9 10 11	section of your report, is that the authors included outcome status or cancer status in their imputation model; is that true? A. Yes.
9 10 11 12 13 14	O'Brien with that missing data effectively treats it as if it was complete case analysis for that missing data, because they just basically impute based on those proportions at random. That's equivalent almost to treating it as if it had been a	8 9 10 11 12 13 14	section of your report, is that the authors included outcome status or cancer status in their imputation model; is that true? A. Yes. Q. Okay. And A. It says I'm trying to go to the paragraph, I mean, I agree with
9 10 11 12 13 14 15	O'Brien with that missing data effectively treats it as if it was complete case analysis for that missing data, because they just basically impute based on those proportions at random. That's equivalent almost to treating it as if it had been a complete case analysis on those people	8 9 10 11 12 13 14 15	section of your report, is that the authors included outcome status or cancer status in their imputation model; is that true? A. Yes. Q. Okay. And A. It says I'm trying to go to the paragraph, I mean, I agree with you
9 10 11 12 13 14 15 16	O'Brien with that missing data effectively treats it as if it was complete case analysis for that missing data, because they just basically impute based on those proportions at random. That's equivalent almost to treating it as if it had been a complete case analysis on those people missing at both time points.	8 9 10 11 12 13 14 15 16	section of your report, is that the authors included outcome status or cancer status in their imputation model; is that true? A. Yes. Q. Okay. And A. It says I'm trying to go to the paragraph, I mean, I agree with you Q. For example, paragraph 44,
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9 10 11 12 13 14 15 16 17 18	O'Brien with that missing data effectively treats it as if it was complete case analysis for that missing data, because they just basically impute based on those proportions at random. That's equivalent almost to treating it as if it had been a complete case analysis on those people missing at both time points. I'm not suggesting in any way that you take the data from time point	8 9 10 11 12 13 14 15 16 17 18	section of your report, is that the authors included outcome status or cancer status in their imputation model; is that true? A. Yes. Q. Okay. And A. It says I'm trying to go to the paragraph, I mean, I agree with you Q. For example, paragraph 44, but you have a whole section on that beginning on Section C, "O'Brien's Chosen
9 10 11 12 13 14 15 16 17 18	O'Brien with that missing data effectively treats it as if it was complete case analysis for that missing data, because they just basically impute based on those proportions at random. That's equivalent almost to treating it as if it had been a complete case analysis on those people missing at both time points. I'm not suggesting in any way that you take the data from time point four and treat that as a complete case	8 9 10 11 12 13 14 15 16 17 18	section of your report, is that the authors included outcome status or cancer status in their imputation model; is that true? A. Yes. Q. Okay. And A. It says I'm trying to go to the paragraph, I mean, I agree with you Q. For example, paragraph 44, but you have a whole section on that beginning on Section C, "O'Brien's Chosen Imputation Method is Inappropriate for the
9 10 11 12 13 14 15 16 17 18 19 20	O'Brien with that missing data effectively treats it as if it was complete case analysis for that missing data, because they just basically impute based on those proportions at random. That's equivalent almost to treating it as if it had been a complete case analysis on those people missing at both time points. I'm not suggesting in any way that you take the data from time point four and treat that as a complete case analysis. There's just too much missing.	8 9 10 11 12 13 14 15 16 17 18 19 20	section of your report, is that the authors included outcome status or cancer status in their imputation model; is that true? A. Yes. Q. Okay. And A. It says I'm trying to go to the paragraph, I mean, I agree with you Q. For example, paragraph 44, but you have a whole section on that beginning on Section C, "O'Brien's Chosen Imputation Method is Inappropriate for the dataset used," and you talk about how they
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9 10 11 12 13 14 15 16 17 18 19 20 21 22	O'Brien with that missing data effectively treats it as if it was complete case analysis for that missing data, because they just basically impute based on those proportions at random. That's equivalent almost to treating it as if it had been a complete case analysis on those people missing at both time points. I'm not suggesting in any way that you take the data from time point four and treat that as a complete case analysis. There's just too much missing. It would be terrible. Q. Missing imputation takes the	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	section of your report, is that the authors included outcome status or cancer status in their imputation model; is that true? A. Yes. Q. Okay. And A. It says I'm trying to go to the paragraph, I mean, I agree with you Q. For example, paragraph 44, but you have a whole section on that beginning on Section C, "O'Brien's Chosen Imputation Method is Inappropriate for the dataset used," and you talk about how they used, I'm sorry, page 25 of your report, Section 8, "O'Brien Relies on Circular
9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	O'Brien with that missing data effectively treats it as if it was complete case analysis for that missing data, because they just basically impute based on those proportions at random. That's equivalent almost to treating it as if it had been a complete case analysis on those people missing at both time points. I'm not suggesting in any way that you take the data from time point four and treat that as a complete case analysis. There's just too much missing. It would be terrible.	8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	section of your report, is that the authors included outcome status or cancer status in their imputation model; is that true? A. Yes. Q. Okay. And A. It says I'm trying to go to the paragraph, I mean, I agree with you Q. For example, paragraph 44, but you have a whole section on that beginning on Section C, "O'Brien's Chosen Imputation Method is Inappropriate for the dataset used," and you talk about how they used, I'm sorry, page 25 of your report,

	Page 310		Page 312
1	part of the model there as well.	1	course, that never exists. You're always
2	A. Right.	1	suboptimal to that. But that is the kind
3	Q. Okay. So one of your main	1	of situation where you would be more
4		4	comfortable with your missing imputation
	report is that they used cancer status in	5	approach.
	the model and that biases the hazard ratio	6	Q. Well, isn't it true that the
7	away from one, right?	7	authors of the 2024 article explain why
8	A. Right.	8	they include outcome status in their model
9	Q. And you think that is an	1	and actually cite a paper for that?
	absolutely wrong way in which to do	10	A. I don't recall exactly what
1	imputation and that's a fatal flaw of this	11	they said to justify using the outcome in
	study, true?	12	their model.
13	A. Well, I think that	13	Q. Well, let's look at it
14	exaggerates what I'm saying. I think I	14	A. Citing a paper, you can
	would want to qualify that. You can in	15	always cite a paper for anything, the
	multiple imputation use the outcome to do	16	point, but does it justify what your
	some imputation. You have to be careful,	17	Q. Well, let's look at what they
	but if you know that your outcome has bias	18	said. I mean, the question is whether or
19	baked in, then you're just going to		not their methods are reasonable, right? I
20	reinforce it. That's the circularity. If	1	mean, whether you would do it or not is
21	your outcome doesn't have any bias baked	21	kind of irrelevant. The question is did
22	in, you would be fine. Now, whether that's	22	they employ methods that are commonly used
23	because of people, more cases dying or not,	23	in the statistical community, true?
24	for the purposes of it being a problem here	24	MS. LEHMAN: Object to form.
	Page 311		Page 313
1	is to some degree irrelevant, because you	1	THE WITNESS: No, I think the
2	do have the differential missingness. It's	2	question is do the methods they use
3	there in the data. It's almost double in	3	appropriately solve the problem so
4	the cases of what it is in the controls, so	4	that they can make unbiased
5	your imputation process is going to bake	5	inferences in the data that they
6	all that back into the imputation part.	6	have.
7	Q. But, Doctor, isn't it true	7	BY MR. TISI:
8	that the imputation, the multiple	8	Q. Okay. Well, they, on page 4
9	imputation would be a fatal mistake to not	9	of their of their study, if you would go
	include outcome status in the imputation	10	back to Exhibit No. 8.
	model?	11	A. Yes, I'm there.
12	A. Actually, I mean, no, the	12	Q. They have a paragraph on the
	ideal situation with multiple imputation is		right-hand side that talks about multiple
	that you have other variables, covariates	1	imputation under the methods section and
1	that could perfectly explain your		describes how they how they perform the
1	missingness that would not be related to		data. Could you blow that up, just that
17	j j		paragraph up, if you don't mind, Jeff?
	of feedback error. But it's all other	l	Okay. In the paragraph, it says "We
1	covariates, other examples, demographic	19	1 2
	variables that could fully explain the	20	confounders and covariates in the
	missingness. That's the perfect scenario	1	imputation model, as well as the cancer
	where you would be as if you didn't have	1	outcomes and crude cumulative hazard
23	missing data. Because you would be able to	23	estimates, which corresponded to the hazard

24 of the earliest of the three cancer

24 perfectly predict the missingness. Of

Document 33011-10

21 here are providing a method to incorporate

23 imputation. It's a methodology thing.

22 outcomes, survival outcomes within multiple

Let's see what they say. I'm

24

A.

Yes.

(Royston and White Paper

marked Kornak Exhibit 20 for

21

22

23

24

	Page 318		Page 320
1	sorry, let's see what they say. It says	1	BY MR. TISI:
	multiple imputation can you please	2	Q. Well, let's continue. It
	scroll up, please? "Multiple imputation is	3	says here on page 1983. "When the
4	commonly used to impute missing data, and		incomplete data are covariates in the
	is typically more efficient than complete		analysis model, the analysis model outcome
l .	cases analysis in regression analysis when		must be used to predict the missing
7	covariates have missing values. Imputation	7	covariate values. Although this practice
8	may be performed using a regression model	8	may seem counterintuitive, it is in fact
9	for the incomplete covariates or other	9	essential," correct?
10	covariates and, importantly, on the	10	A. I would really have to sit
11	outcome." Right? Correct?	11	with this and look at the context. So if
12	A. Yeah, the qualifier there is	12	you want to give me a minute to read the
13	it may be performed.	13	paragraph before and after, I'm happy to do
14	Q. Well, and then it says	14	that, but I'm not going to
15	importantly, includes the outcomes, right?	15	Q. Did you read this paper? I
16	A. Again, linked with the word	16	mean, this is the paper upon which they
17	"may," you may include the outcome.	17	relied to perform the multiple imputations
18	Q. Right. And it goes on to say	18	that they did for missing data. This was
19	"We compare the methods using simulation	19	the only paper that they relied on. Did
20	studies. We find that using log T biases	20	you look at it?
21	covariate-outcome association towards the	21	MS. LEHMAN: Object to form.
1	null, while the new methods have lower	22	Asked and answered.
	bias."	23	THE WITNESS: Yes, I looked at
24	Do you see that?	24	it. I didn't go through it in
	Page 319		Page 321
1	A. Yes.	1	detail.
2	Q. And they go on to say	l	BY MR. TISI:
3	"Overall, we recommend including event	3	Q. Okay.
4		١.	
	indicator and the Nelson-Aalen estimator in	4	A. I looked through it just
5	the imputation model."	5	it's kind of a tangential. They are giving
5 6	the imputation model." Do you see that?	5 6	it's kind of a tangential. They are giving this as a reference because it's the
5 6 7	the imputation model." Do you see that? A. Yes.	5 6 7	it's kind of a tangential. They are giving this as a reference because it's the approach that the software that they use, I
5 6 7 8	the imputation model." Do you see that? A. Yes. Q. Go down please, a little	5 6 7 8	it's kind of a tangential. They are giving this as a reference because it's the approach that the software that they use, I believe they use, they would have used as a
5 6 7 8 9	the imputation model." Do you see that? A. Yes. Q. Go down please, a little further.	5 6 7 8 9	it's kind of a tangential. They are giving this as a reference because it's the approach that the software that they use, I believe they use, they would have used as a status SSR and that software uses this in
5 6 7 8 9 10	the imputation model." Do you see that? A. Yes. Q. Go down please, a little further. A. But I'm going to qualify it,	5 6 7 8 9 10	it's kind of a tangential. They are giving this as a reference because it's the approach that the software that they use, I believe they use, they would have used as a status SSR and that software uses this in how it puts things together and they would
5 6 7 8 9 10 11	the imputation model." Do you see that? A. Yes. Q. Go down please, a little further. A. But I'm going to qualify it, they're not saying that you should do that	5 6 7 8 9 10 11	it's kind of a tangential. They are giving this as a reference because it's the approach that the software that they use, I believe they use, they would have used as a status SSR and that software uses this in how it puts things together and they would have used it. I don't think when they are
5 6 7 8 9 10 11 12	the imputation model." Do you see that? A. Yes. Q. Go down please, a little further. A. But I'm going to qualify it, they're not saying that you should do that when your outcome has bias already induced	5 6 7 8 9 10 11 12	it's kind of a tangential. They are giving this as a reference because it's the approach that the software that they use, I believe they use, they would have used as a status SSR and that software uses this in how it puts things together and they would have used it. I don't think when they are referencing this paper they're saying look
5 6 7 8 9 10 11 12 13	the imputation model." Do you see that? A. Yes. Q. Go down please, a little further. A. But I'm going to qualify it, they're not saying that you should do that when your outcome has bias already induced in it.	5 6 7 8 9 10 11 12 13	it's kind of a tangential. They are giving this as a reference because it's the approach that the software that they use, I believe they use, they would have used as a status SSR and that software uses this in how it puts things together and they would have used it. I don't think when they are referencing this paper they're saying look at this to justify our incomplete data.
5 6 7 8 9 10 11 12 13 14	the imputation model." Do you see that? A. Yes. Q. Go down please, a little further. A. But I'm going to qualify it, they're not saying that you should do that when your outcome has bias already induced in it. Q. I understand, but you've	5 6 7 8 9 10 11 12 13 14	it's kind of a tangential. They are giving this as a reference because it's the approach that the software that they use, I believe they use, they would have used as a status SSR and that software uses this in how it puts things together and they would have used it. I don't think when they are referencing this paper they're saying look at this to justify our incomplete data. Q. On what basis would you
5 6 7 8 9 10 11 12 13 14 15	the imputation model." Do you see that? A. Yes. Q. Go down please, a little further. A. But I'm going to qualify it, they're not saying that you should do that when your outcome has bias already induced in it. Q. I understand, but you've criticized them, you've criticized the	5 6 7 8 9 10 11 12 13 14 15	it's kind of a tangential. They are giving this as a reference because it's the approach that the software that they use, I believe they use, they would have used as a status SSR and that software uses this in how it puts things together and they would have used it. I don't think when they are referencing this paper they're saying look at this to justify our incomplete data. Q. On what basis would you say on what basis do you say they
5 6 7 8 9 10 11 12 13 14 15 16	the imputation model." Do you see that? A. Yes. Q. Go down please, a little further. A. But I'm going to qualify it, they're not saying that you should do that when your outcome has bias already induced in it. Q. I understand, but you've criticized them, you've criticized the authors here for daring to include an	5 6 7 8 9 10 11 12 13 14 15 16	it's kind of a tangential. They are giving this as a reference because it's the approach that the software that they use, I believe they use, they would have used as a status SSR and that software uses this in how it puts things together and they would have used it. I don't think when they are referencing this paper they're saying look at this to justify our incomplete data. Q. On what basis would you say on what basis do you say they say, they cite this paper for including all
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5 6 7 8 9 10 11 12 13 14 15 16 17 18	the imputation model." Do you see that? A. Yes. Q. Go down please, a little further. A. But I'm going to qualify it, they're not saying that you should do that when your outcome has bias already induced in it. Q. I understand, but you've criticized them, you've criticized them, you've criticized the authors here for daring to include an outcome in their imputation model and this article says you need to. If you're going	5 6 7 8 9 10 11 12 13 14 15 16 17 18	it's kind of a tangential. They are giving this as a reference because it's the approach that the software that they use, I believe they use, they would have used as a status SSR and that software uses this in how it puts things together and they would have used it. I don't think when they are referencing this paper they're saying look at this to justify our incomplete data. Q. On what basis would you say on what basis do you say they say, they cite this paper for including all the covariates as well as the outcomes in their multiple imputation model. They cite
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	the imputation model." Do you see that? A. Yes. Q. Go down please, a little further. A. But I'm going to qualify it, they're not saying that you should do that when your outcome has bias already induced in it. Q. I understand, but you've criticized them, you've criticized them authors here for daring to include an outcome in their imputation model and this article says you need to. If you're going to do it, you need to include the outcome,	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	it's kind of a tangential. They are giving this as a reference because it's the approach that the software that they use, I believe they use, they would have used as a status SSR and that software uses this in how it puts things together and they would have used it. I don't think when they are referencing this paper they're saying look at this to justify our incomplete data. Q. On what basis would you say on what basis do you say they say, they cite this paper for including all the covariates as well as the outcomes in their multiple imputation model. They cite it for that purpose.
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	the imputation model." Do you see that? A. Yes. Q. Go down please, a little further. A. But I'm going to qualify it, they're not saying that you should do that when your outcome has bias already induced in it. Q. I understand, but you've criticized them, you've criticized them, you've criticized the authors here for daring to include an outcome in their imputation model and this article says you need to. If you're going to do it, you need to include the outcome, correct?	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	it's kind of a tangential. They are giving this as a reference because it's the approach that the software that they use, I believe they use, they would have used as a status SSR and that software uses this in how it puts things together and they would have used it. I don't think when they are referencing this paper they're saying look at this to justify our incomplete data. Q. On what basis would you say they say, they cite this paper for including all the covariates as well as the outcomes in their multiple imputation model. They cite it for that purpose. A. I don't believe that's what
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5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the imputation model." Do you see that? A. Yes. Q. Go down please, a little further. A. But I'm going to qualify it, they're not saying that you should do that when your outcome has bias already induced in it. Q. I understand, but you've criticized them, you've criticized them, you've criticized the authors here for daring to include an outcome in their imputation model and this article says you need to. If you're going to do it, you need to include the outcome, correct? MS. LEHMAN: Object to form. THE WITNESS: I don't think it	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	it's kind of a tangential. They are giving this as a reference because it's the approach that the software that they use, I believe they use, they would have used as a status SSR and that software uses this in how it puts things together and they would have used it. I don't think when they are referencing this paper they're saying look at this to justify our incomplete data. Q. On what basis would you say on what basis do you say they say, they cite this paper for including all the covariates as well as the outcomes in their multiple imputation model. They cite it for that purpose. A. I don't believe that's what they do Q. Well, let's go back and see
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	the imputation model." Do you see that? A. Yes. Q. Go down please, a little further. A. But I'm going to qualify it, they're not saying that you should do that when your outcome has bias already induced in it. Q. I understand, but you've criticized them, you've criticized them, you've criticized the authors here for daring to include an outcome in their imputation model and this article says you need to. If you're going to do it, you need to include the outcome, correct? MS. LEHMAN: Object to form.	5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	it's kind of a tangential. They are giving this as a reference because it's the approach that the software that they use, I believe they use, they would have used as a status SSR and that software uses this in how it puts things together and they would have used it. I don't think when they are referencing this paper they're saying look at this to justify our incomplete data. Q. On what basis would you say they say, they cite this paper for including all the covariates as well as the outcomes in their multiple imputation model. They cite it for that purpose. A. I don't believe that's what they do Q. Well, let's go back and see

Page 32:	_
2 covariates in the multiple imputation, as	1 now? This is a good time to take a break.2 Why don't you take a look at the paper at
3 well as each of the cancer outcomes in the	3 the break?
4 crude cumulative hazard estimates."	
	,
5 Citation White and Royston.	5 great. I would appreciate that. Thank
6 A. That's for the method of	6 you.
7 using the crude cumulative hazard estimate.	7 Q. No problem.
8 Q. Right, for cancer	8
9 A. It doesn't say we justify our	9 (A recess was taken at this time.)
10 use of the outcome based on this paper. I	10
11 mean, like I say, I'm happy to read through	11 BY MR. TISI:
12 those paragraphs if you want me to to put	12 Q. Doctor, we have been talking
13 them into context.	13 about the White and Royston article. We
14 Q. Let's go back to the Royston	14 gave you an opportunity to go off the
15 article, the White and Royston article.	15 record and read it. Have you had an
16 A. Yeah.	16 opportunity to read it?
17 Q. They say failure to include,	17 A. I believe I've had an
18 while it may be counterintuitive, failure	18 opportunity to scan it, yes.
19 to include outcomes is essential, true?	19 Q. Yeah. And I think before you
20 MS. LEHMAN: Objection. The	20 had indicated that you had not really, I
21 article speaks for itself.	21 think, read it in detail previously, is
22 BY MR. TISI:	22 that true or had you read it in detail?
Q. If you're going to do it, you	23 A. I think I would say that
24 need to include outcomes, right?	24 statement still holds, it's a deeply
Page 32	Page 325
Page 32. 1 MS. LEHMAN: Same objection.	-
1 MS. LEHMAN: Same objection.	1 math it's a mathematically, technical
1 MS. LEHMAN: Same objection. 2 THE WITNESS: I'm going to	1 math it's a mathematically, technical2 paper that goes into some simulation
1 MS. LEHMAN: Same objection. 2 THE WITNESS: I'm going to 3 look at that, I mean, if you	 1 math it's a mathematically, technical 2 paper that goes into some simulation 3 studies, just from now from my quick look,
1 MS. LEHMAN: Same objection. 2 THE WITNESS: I'm going to 3 look at that, I mean, if you 4 BY MR. TISI:	 1 math it's a mathematically, technical 2 paper that goes into some simulation 3 studies, just from now from my quick look, 4 you know, that would be a paper that would
1 MS. LEHMAN: Same objection. 2 THE WITNESS: I'm going to 3 look at that, I mean, if you 4 BY MR. TISI: 5 Q. Great.	 1 math it's a mathematically, technical 2 paper that goes into some simulation 3 studies, just from now from my quick look, 4 you know, that would be a paper that would 5 take days to carefully look at.
1 MS. LEHMAN: Same objection. 2 THE WITNESS: I'm going to 3 look at that, I mean, if you 4 BY MR. TISI: 5 Q. Great. 6 A. Are you just reading out the	 math it's a mathematically, technical paper that goes into some simulation studies, just from now from my quick look, you know, that would be a paper that would take days to carefully look at. Q. And you didn't do that before
1 MS. LEHMAN: Same objection. 2 THE WITNESS: I'm going to 3 look at that, I mean, if you 4 BY MR. TISI: 5 Q. Great. 6 A. Are you just reading out the 7 statement to me or are you	 math it's a mathematically, technical paper that goes into some simulation studies, just from now from my quick look, you know, that would be a paper that would take days to carefully look at. Q. And you didn't do that before you rendered your opinion about the
1 MS. LEHMAN: Same objection. 2 THE WITNESS: I'm going to 3 look at that, I mean, if you 4 BY MR. TISI: 5 Q. Great. 6 A. Are you just reading out the 7 statement to me or are you 8 Q. I'm reading, I mean, it's a	 1 math it's a mathematically, technical 2 paper that goes into some simulation 3 studies, just from now from my quick look, 4 you know, that would be a paper that would 5 take days to carefully look at. 6 Q. And you didn't do that before 7 you rendered your opinion about the 8 feedback loop, right?
1 MS. LEHMAN: Same objection. 2 THE WITNESS: I'm going to 3 look at that, I mean, if you 4 BY MR. TISI: 5 Q. Great. 6 A. Are you just reading out the 7 statement to me or are you 8 Q. I'm reading, I mean, it's a 9 pretty clear statement, it says, when	 1 math it's a mathematically, technical 2 paper that goes into some simulation 3 studies, just from now from my quick look, 4 you know, that would be a paper that would 5 take days to carefully look at. 6 Q. And you didn't do that before 7 you rendered your opinion about the 8 feedback loop, right? 9 A. No, and I don't think this
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1 MS. LEHMAN: Same objection. 2 THE WITNESS: I'm going to 3 look at that, I mean, if you 4 BY MR. TISI: 5 Q. Great. 6 A. Are you just reading out the 7 statement to me or are you 8 Q. I'm reading, I mean, it's a 9 pretty clear statement, it says, when 10 A. No, no, no, no 11 Q. Well, let's	1 math it's a mathematically, technical 2 paper that goes into some simulation 3 studies, just from now from my quick look, 4 you know, that would be a paper that would 5 take days to carefully look at. 6 Q. And you didn't do that before 7 you rendered your opinion about the 8 feedback loop, right? 9 A. No, and I don't think this 10 paper is relevant to that 11 Q. Okay.
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1 MS. LEHMAN: Same objection. 2 THE WITNESS: I'm going to 3 look at that, I mean, if you 4 BY MR. TISI: 5 Q. Great. 6 A. Are you just reading out the 7 statement to me or are you 8 Q. I'm reading, I mean, it's a 9 pretty clear statement, it says, when 10 A. No, no, no, no 11 Q. Well, let's 12 A it's not. You cannot 13 you cannot look at a complex, statistical 14 methodological paper and then just say, oh,	1 math it's a mathematically, technical 2 paper that goes into some simulation 3 studies, just from now from my quick look, 4 you know, that would be a paper that would 5 take days to carefully look at. 6 Q. And you didn't do that before 7 you rendered your opinion about the 8 feedback loop, right? 9 A. No, and I don't think this 10 paper is relevant to that 11 Q. Okay. 12 A statement. 13 Q. So having now had an 14 opportunity to review the paper, and if you
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	Page 326		Daga 228
1	Q. Do you agree or disagree with	1	Page 328 in favor of null, correct?
2	that statement?	2	A. I would agree that it's of
3	A. I don't know that I either	3	_
4		4	Q. Right.
	not going to argue it, but I would say this	5	A. We can agree to that, I
	is conditional, based on what I've seen in	_	think. And bias whether that's bias
1	the simulation studies, quickly looking		towards the null or bias away from the
1	through, on outcome data not incorporating		null, bias away from the null is the most
9	bias in any way. And also that and as	9	dangerous though when you are considering
	is required for all multiple imputation		statistical inference and whether or not to
	models to with a basic assumption that		reject a null hypothesis. For example, if
1	you are in a missing at random situation		you're trying to get a drug approved with
1	not a missing not at random situation.		FDA, they're not going to worry too much
14	Q. Well, we		about you having bias towards the null.
15	A. Here the problem is that the		They're going to be much more worried about
	second time point values being incorporated		you having bias away from the null.
1	into the imputation model incorporates	17	Q. Right. And it's not like the
	bias. So I would stand by that statement.		authors here did not consider the potential
	The exact details here of what they why		of bias. We're going to talk about that in
1	they say must be and essential, I would		a moment, but the question higher with the
	defer answering.		multiple imputation is really just
22	Q. Well, I mean, if I'm		calculating the hazard ratio and then after
	understanding this correctly and I'm just,		that considering whether or not it's the
1	you know, I'm just a lawyer, right, so I'm		result of bias, right? I mean, the first
			, &
	Doga 227		Daga 220
1	Page 327 trying to understand this, but if I	1	Page 329
	trying to understand this, but if I		question is
2	trying to understand this, but if I understand this question correctly,	2	question is A. No, no.
3	trying to understand this, but if I understand this question correctly, imputation doesn't go to the question	2 3	question is A. No, no. Q. If I'm understanding
2 3 4	trying to understand this, but if I understand this question correctly, imputation doesn't go to the question about you always have to answer the	2 3 4	question is A. No, no. Q. If I'm understanding correctly let me rephrase the question.
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2 3 4 5 6 7	trying to understand this, but if I understand this question correctly, imputation doesn't go to the question about you always have to answer the question about bias, right? Imputation just deals with the question of missingness, am I right?	2 3 4 5 6 7	question is A. No, no. Q. If I'm understanding correctly let me rephrase the question. A. Okay. Q. If I'm understanding the process, the first thing that they did was
2 3 4 5 6 7 8	trying to understand this, but if I understand this question correctly, imputation doesn't go to the question about you always have to answer the question about bias, right? Imputation just deals with the question of missingness, am I right? A. Well, imputation is about	2 3 4 5 6 7 8	question is A. No, no. Q. If I'm understanding correctly let me rephrase the question. A. Okay. Q. If I'm understanding the process, the first thing that they did was do a quantitative bias analysis to
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	trying to understand this, but if I understand this question correctly, imputation doesn't go to the question about you always have to answer the question about bias, right? Imputation just deals with the question of missingness, am I right? A. Well, imputation is about trying to fill in missing data as Q. Correct. A best you can in a way that your analysis is as unbiased as it can be. But that is separate, like, the missing data approach can incorporate bias and then it becomes a problem. Q. And then you always have to you always have to account for bias, right? I mean, even whether it's a bias away from the null or towards the null, you always have to, when you're doing statistical analysis of this type, you know, question one is how did you calculate	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	A. No, no. Q. If I'm understanding correctly let me rephrase the question. A. Okay. Q. If I'm understanding the process, the first thing that they did was do a quantitative bias analysis to calculate a hazard ratio. And the second question is acknowledging the potential for recall bias, how do they address that question. They're really two separate questions, right? MS. LEHMAN: Object to form. THE WITNESS: I don't know that they're separate. It's like bias upon bias, that one part of the bias is the part that they do the what they call a correction for. And then they do the imputation incorporating that bias and rolling it in and baking it in
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	trying to understand this, but if I understand this question correctly, imputation doesn't go to the question about you always have to answer the question about bias, right? Imputation just deals with the question of missingness, am I right? A. Well, imputation is about trying to fill in missing data as Q. Correct. A best you can in a way that your analysis is as unbiased as it can be. But that is separate, like, the missing data approach can incorporate bias and then it becomes a problem. Q. And then you always have to you always have to account for bias, right? I mean, even whether it's a bias away from the null or towards the null, you always have to, when you're doing statistical analysis of this type, you	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	question is A. No, no. Q. If I'm understanding correctly let me rephrase the question. A. Okay. Q. If I'm understanding the process, the first thing that they did was do a quantitative bias analysis to calculate a hazard ratio. And the second question is acknowledging the potential for recall bias, how do they address that question. They're really two separate questions, right? MS. LEHMAN: Object to form. THE WITNESS: I don't know that they're separate. It's like bias upon bias, that one part of the bias is the part that they do the what they call a correction for. And then they do the imputation incorporating that bias

Page 330 Page 332 1 is recall bias and we'll kind of 1 I'm just going to think 2 play around with some numbers that 2 through that. I think if you had just --3 we make up of what it might be. 3 yeah, in a very general sense, if you -- if 4 BY MR. TISI: 4 you have a complete -- if you just use the 5 Right. But the first 5 complete case analysis like they did, we O. 6 question really is, and just to be, just so 6 can even go back to, was it Table 3 with 7 we have a clear record, what they're doing 7 the final row that you were describing the 8 with the quantitative bias analysis is 8 analyses that they only look after the 9 accounting for contradictory missing data 9 follow-up time, do you remember? 10 in order to calculate a risk ratio, 10 O. Yeah. 11 correct? If we go to it, yeah. 11 12 Α. I don't think they're 12 O. No --13 accounting for anything. I mean, 13 A. Go ahead. 14 accounting and statistics, accounting for 14 Q. No. I mean, I guess I'm 15 something means incorporating it into the 15 trying to get at the concept that White and 16 model as something that you're estimating 16 Royston make on page 1983, it says 17 in some way, typically, as part of the 17 important -- they say "it is important to 18 modeling procedure. They're not doing that 18 find the right way to include the survival 19 here. They're just changing data. 19 outcome in the imputation model because, 20 Q. And to be clear, Doctor, when 20 otherwise, the association between the 21 somebody does a multiple imputation, they 21 covariate and the surveillance survival is 22 don't know ahead of time how it's going to 22 likely to be diluted." 23 23 affect the hazard ratio, do they? They A. Right, but you're diluting, 24 don't know if it's going to go towards the 24 like in that, it's -- that statement is Page 331 Page 333 1 null or away from the null, it could go 1 true. I think there's an important caveat 2 either way. 2 there of finding the right way to include A. I mean, relative to what, 3 the survival outcome. 3 4 relative to if they did a complete case And then there's another 5 important aspect to this is you're diluting 5 analysis, you mean, or relative to what? Q. They don't know, what I'm 6 what you have, but in the complete data 7 trying to say is there's no way to predict 7 analysis that you're starting from that you 8 what the results of the imputation process 8 would be diluting in the O'Brien (2024) 9 is going to be in terms of amplifying or 9 paper with starting using only follow-up, 10 tamping down the hazard ratio, correct? 10 only -- let's say you were using that 11 I don't agree with that, 11 example of the -- you're starting from the 12 because if you know about sources of bias, 12 follow-up time point and you're looking 13 then you can start to predict the

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16 you looked at the data that they have just 17 in the tables and you know what the steps 18 are they're going to do, you know that 19 these steps will bias you away from the 20 null.

14 direction, you could have predicted the

15 direction here based on their steps. If

21 O. Well, wouldn't not including 22 the survival status or the outcome in the 23 model have biased the results towards the 24 null?

13 prospectively, then there's only -- you 14 have limited data there because of weak --15 well, because of -- partly possibly because 16 of whatever answer you get there, if you 17 then impute missing data that will get 18 biased, that move towards the null. I 19 don't think bias at the right word, but it 20 will move towards the null --21 Q. Let me see if I can put it 22 another way. The authors here -- I'm 23 sorry. I'm sorry. The authors here 24 described a method including cancer status

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3

4

14

- 1 in the imputation model and they cite, I
- 2 think I said it wrong before, I said 42, I
- 3 think I meant footnote 32, which is the
- 4 White and Royston model. Okay? You would
- 5 not include cancer status in the imputation
- 6 model because it would create this feedback
- 7 loop, right?
- 8 A. Because you're in the kind
- 9 of -- you're in the missing not at random
- 10 situation, yeah, you have bias in that
- 11 data, yes.
- 12 Q. So what is your authority
- 13 for, I mean, if I'm reading this paper
- 14 correctly and I'm just a lawyer, right, I'm
- 15 reading this saying although this practice
- 16 of including cancer status in an imputation
- 17 model, this may seem counterintuitive is in
- 18 fact essential, right, when I read that, I
- 19 need to take the opposite point of view
- 20 that putting cancer status would amplify
- 21 the risk and, therefore, should not be
- 22 included and I want to know, you know, your
- 23 authority, is there a textbook, an article
- 24 or something where you can say, point me to

- 1 going to incorporate that bias into your
 - 2 imputation. I mean, that's --
 - Q. Would you go to --
 - A. The simulations that they
 - 5 have here in White and Royston do not
 - 6 incorporate those kinds of biases, they're
 - 7 simulations under ideal missing at random
 - 8 situations and where they do not have bias
 - 9 in their outcomes.
 - 10 Q. So I'm going to look at, and
 - 11 can we go to your number 42 in your report,
 - 12 please, where you talk about MICE
 - 13 procedure. Do you see --
 - A. I'm sorry, I'm still getting
 - 15 there. In my 42, I don't see that, no.
 - 16 Q. It says -- I'm sorry?
 - 17 A. I say, I'm talking about
 - 18 imputations later, but --
 - 19 Q. Let me ask you this, will the
 - 20 MICE procedure classify all women as talc
 - 21 users? The MICE procedure is a predictive
 - 22 model that will classify women as users and
 - 23 some women as nonusers, right?
 - A. Clearly, it doesn't, because,

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1 that is the counter to White and Royston?

- 2 A. Well, White and Royston is
- 3 under the assumption that missing multiple
- 4 imputation is appropriate, which is the
- 5 missing at random situation.
- 6 O. Okav.
- 7 A. Under that -- under that
- 8 assumption, and if your outcomes are
- 9 unbiased, I mean, I don't -- there is --
- 10 and so Rubin's book will tell you you can't
- 11 use multiple imputation if you're missing
- 12 not at random.
- 13 Q. Okay.
- 14 A. You can go all the way back
- 15 there and you can look at every textbook on
- 16 multiple imputation, it says if you have
- 17 missing not at random, multiple imputation
- 18 as it stands is inappropriate.
- 19 Then there's also -- I don't
- 20 know if you'll find a textbook, but there's
- 21 an implicit assumption that your data that
- 22 you have is right and not biased. And if
- 23 you do have biased data that you're
- 24 building your imputation model from, you're

Page 337 1 otherwise, it would be the same as Scenario 2 3.

- 3 Q. Well, okay. But --
 - A. We would get exactly the same
- 5 answer, because you would get exactly the
- 6 same data as you imputed in Scenario 3.
- 7 Q. To be clear, using MICE on
- 8 this dataset was never going to be and did
- 9 not in fact classify all talc -- all
- 10 ovarian cancer cases where there was
- 11 missing data as nonusers or as users?
- 12 A. I'm just trying to follow the
- 13 logic through and there's --
- 14 Q. Let me rephrase my question.
- 15 A. I think most likely not, but
- 16 there is a bizarre scenario where you
- 17 classified all the cases as one thing and
- 18 all the non-cases were mixed up, but it
- 19 would be very bizarre.
- Q. Well, in fact, multiple
- 21 imputation takes the guesswork out of data
- 22 analysis when data is missing using data
- 23 that statisticians do in fact know about to
- 24 predict in this case use or nonuse, right?

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1 A. I would qualify that, it	1 each of your imputed datasets and you're
2 tries to.	2 building your confidence intervals from
3 Q. Okay.	3 those.
4 A. It depends on whether you	4 The more uncertainty there
5 have the information to do that.	5 is, the more imputations you need to get a
6 Q. Right.	6 representative sample of that missingness.
7 A. There are other variables.	7 Q. Right, so it won't cause
8 Q. And in this case, you have	8 A. But in practice, it's very
9 not, to my knowledge, attacked the	9 hard to sort of, like, run more than, you
10 proprietary, other than cancer outcome, of	10 know, ten imputations. It's an expensive
11 the variables used by the authors to	11 computational process.
12 predict whether or not a woman is nonuser	12 Q. Well, it won't cause bias
13 or user in the case of missingness?	13 actually by, even if they were not good
14 A. I think I do point to it, if	14 predictors, the variables used, they would
15 you go to paragraph, I think it's 54, going	15 just cause variance, for example, multiple
16 on to the top of page 25. So these are	16 imputations will accurately convey how much
17 these are the variables they're using for	17 information there actually is in the data
18 multiple imputation beyond an outcome, at	18 about the relationships, true?
19 least some of them, and you see, like,	19 A. I didn't say they would cause
20 across the board, they're really small	20 bias. These, the non-outcome related
21 correlations and so you can't predict	21 predictors, if they're measured well, will
22 you can't predict the missingness when	22 not cause bias. They just won't provide
23 there's such little information in the	23 any information about what the missing
24 covariate. You can't predict it well. So	24 value is.
Page 33	9 Page 341
1 you're taking a little bit of the guesswork	1 Q. And that in fact
2 out maybe if these estimates are real and	2 A. It's basically just
3 not just sort of, like, noise in the data.	3 simulating it completely at random.
4 But you're only going to be predicting a	4 Q. And that's a big problem with
5 little bit.	5 single imputation, since basically it
6 Q. Well, isn't it okay, and I'm	6 pretends that each value is true but is not
7 probably using the wrong word	7 a problem with multiple imputation because
8 statistically, but isn't it all right if	8 that's the whole kind of point of doing it,
9 they aren't good predictors, because in	9 right, multiple imputations
10 that circumstance, multiple imputations	10 A. I'm not going to argue I'm
11 will be variable across imputations and it	11 not arguing that single imputation is
12 will just increase the uncertainty or the	12 better by a long way and that also has, you
13 width of the confidence interval?	13 know, the only reason that single
14 A. That's certainly part of it,	14 imputation gets used anymore for super
15 but it's not the complete story. So you	15 massive datasets, where it's just
16 can get to a point where you're adding in	16 computationally too expensive to do any
17 variables and you're adding in noise into	17 other kind of imputation. But what I am
18 the process. Also, when you do multiple	18 saying here is that, okay, just if you're
19 imputation, if you're to have you have	19 setting your bar super low and you're
20 to do some combination across imputations.	20 saying we can beat that bar a little bit by

21 having these only very slightly related

23 that doesn't really get you very far.

22 variables to the potential for missingness,

But, again, I mean, the

24

21 So, like, I think the others talk about

24 approaches, but, you know, basically taking

22 using Rubin's rules to do that, my

23 understanding is there are other

	Page 342		Page 344
1	actual variables used are disclosed in the	1	BY MR. TISI:
2	paper, I think it's footnote D of the	2	Q. Have you done that?
3	table. I've got to find my copy of it.	3	A. Have I searched their
4	It's contained in footnote D of Table 2,	4	website
5	correct?	5	Q. Have you looked
6	A. In footnote	6	A as to whether they tell
7	Q. Two, I have it on the screen	7	you what imputation model they used in a
8	as well, if it that helps locate it.	8	paper that should have included that
9	A. No, I've located it, it's	9	information? I did not do that, no.
10	just small writing. So it lists additional	10	Q. Well, okay. You know, I
11	variables used over and above those that	11	mean, you've written papers before and I'm
12	are used for the survival analysis, but	12	sure people could always say that more
13	it's not completely clear what are the	13	could have been included that wasn't,
14	variables that come from the survival	14	right, you've heard that before, right?
15	analysis. So it's not clear that we have a	15	A. Yeah, I'm not going to
16	complete list here.	16	dispute that there are papers that I have
17	Q. Again, you don't know the	17	been involved in that there are certain
18	answer to that question, so it's	18	aspects that are that some detail that
19	A. Well, no, the answer to that	19	may have been missed. But here
20	question is that it's incomplete.	20	Q. Right.
21	Q. Okay. So my question though	21	A there are just so many, on
22	is they've disclosed the imputation model	22	so many levels, there are stuff missing
23	including both the variables that they used	23	that it goes beyond my analysis.
24	and the outcome status in their article,	24	Q. I understand, I get it. I
	Page 343		Page 345
1	including the reasons why they did it,	1	get it. And you've identified those you
2	true, they cited White and Royston?	2	have identified those in eight days after
3	A. They don't completely	3	\$50,000, right?
4	disclose the predictors in the multiple	4	MS. LEHMAN: Object to form.
5	imputation model, because they're saying	5	Argumentative.
6	they use it, what they had in the	6	THE WITNESS: I identified
7	multivariable analysis, which they don't	7	those pieces that I found within my
8	completely specify. In addition, those two	8	report after performing an
9	pieces, even if they were complete, would	9	independent review of this name
	1 , 1 ,	/	independent review of this paper.
10	not completely describe the imputation		BY MR. TISI:
	- · · · · · · · · · · · · · · · · · · ·		
11 12	not completely describe the imputation process, because they don't say what kind of model they use for the imputation. Are	10 11	BY MR. TISI:
11 12 13	not completely describe the imputation process, because they don't say what kind of model they use for the imputation. Are they using logistic regression, probit	10 11 12 13	BY MR. TISI: Q. And that was your charge, right? Tell me what's wrong with this paper.
11 12 13 14	not completely describe the imputation process, because they don't say what kind of model they use for the imputation. Are they using logistic regression, probit regression? There are multiple ways of	10 11 12 13 14	BY MR. TISI: Q. And that was your charge, right? Tell me what's wrong with this paper. MS. LEHMAN: Object to form.
11 12 13 14 15	not completely describe the imputation process, because they don't say what kind of model they use for the imputation. Are they using logistic regression, probit regression? There are multiple ways of imputing a binary variable and they don't	10 11 12 13 14 15	BY MR. TISI: Q. And that was your charge, right? Tell me what's wrong with this paper. MS. LEHMAN: Object to form. THE WITNESS: I said before, I
11 12 13 14 15 16	not completely describe the imputation process, because they don't say what kind of model they use for the imputation. Are they using logistic regression, probit regression? There are multiple ways of imputing a binary variable and they don't say what	10 11 12 13 14 15 16	BY MR. TISI: Q. And that was your charge, right? Tell me what's wrong with this paper. MS. LEHMAN: Object to form. THE WITNESS: I said before, I was asked to give an independent
11 12 13 14 15 16 17	not completely describe the imputation process, because they don't say what kind of model they use for the imputation. Are they using logistic regression, probit regression? There are multiple ways of imputing a binary variable and they don't say what Q. Have you searched have you	10 11 12 13 14 15 16 17	BY MR. TISI: Q. And that was your charge, right? Tell me what's wrong with this paper. MS. LEHMAN: Object to form. THE WITNESS: I said before, I was asked to give an independent review of this paper. That's what
11 12 13 14 15 16 17 18	not completely describe the imputation process, because they don't say what kind of model they use for the imputation. Are they using logistic regression, probit regression? There are multiple ways of imputing a binary variable and they don't say what Q. Have you searched have you searched the website for the Sister Study	10 11 12 13 14 15 16 17 18	BY MR. TISI: Q. And that was your charge, right? Tell me what's wrong with this paper. MS. LEHMAN: Object to form. THE WITNESS: I said before, I was asked to give an independent review of this paper. That's what I did.
11 12 13 14 15 16 17 18 19	not completely describe the imputation process, because they don't say what kind of model they use for the imputation. Are they using logistic regression, probit regression? There are multiple ways of imputing a binary variable and they don't say what Q. Have you searched have you searched the website for the Sister Study to see whether or not that data is	10 11 12 13 14 15 16 17 18 19	BY MR. TISI: Q. And that was your charge, right? Tell me what's wrong with this paper. MS. LEHMAN: Object to form. THE WITNESS: I said before, I was asked to give an independent review of this paper. That's what I did. BY MR. TISI:
11 12 13 14 15 16 17 18 19 20	not completely describe the imputation process, because they don't say what kind of model they use for the imputation. Are they using logistic regression, probit regression? There are multiple ways of imputing a binary variable and they don't say what Q. Have you searched have you searched the website for the Sister Study to see whether or not that data is available?	10 11 12 13 14 15 16 17 18 19 20	BY MR. TISI: Q. And that was your charge, right? Tell me what's wrong with this paper. MS. LEHMAN: Object to form. THE WITNESS: I said before, I was asked to give an independent review of this paper. That's what I did. BY MR. TISI: Q. If you were asking for an
11 12 13 14 15 16 17 18 19 20 21	not completely describe the imputation process, because they don't say what kind of model they use for the imputation. Are they using logistic regression, probit regression? There are multiple ways of imputing a binary variable and they don't say what Q. Have you searched have you searched the website for the Sister Study to see whether or not that data is available? MS. LEHMAN: Object to form.	10 11 12 13 14 15 16 17 18 19 20 21	BY MR. TISI: Q. And that was your charge, right? Tell me what's wrong with this paper. MS. LEHMAN: Object to form. THE WITNESS: I said before, I was asked to give an independent review of this paper. That's what I did. BY MR. TISI: Q. If you were asking for an independent review, did you say, you know,
11 12 13 14 15 16 17 18 19 20 21 22	not completely describe the imputation process, because they don't say what kind of model they use for the imputation. Are they using logistic regression, probit regression? There are multiple ways of imputing a binary variable and they don't say what Q. Have you searched have you searched the website for the Sister Study to see whether or not that data is available? MS. LEHMAN: Object to form. THE WITNESS: It's not data,	10 11 12 13 14 15 16 17 18 19 20 21 22	BY MR. TISI: Q. And that was your charge, right? Tell me what's wrong with this paper. MS. LEHMAN: Object to form. THE WITNESS: I said before, I was asked to give an independent review of this paper. That's what I did. BY MR. TISI: Q. If you were asking for an independent review, did you say, you know, I'm going to do this, I'm going to do this
11 12 13 14 15 16 17 18 19 20 21	not completely describe the imputation process, because they don't say what kind of model they use for the imputation. Are they using logistic regression, probit regression? There are multiple ways of imputing a binary variable and they don't say what Q. Have you searched have you searched the website for the Sister Study to see whether or not that data is available? MS. LEHMAN: Object to form.	10 11 12 13 14 15 16 17 18 19 20 21 22 23	BY MR. TISI: Q. And that was your charge, right? Tell me what's wrong with this paper. MS. LEHMAN: Object to form. THE WITNESS: I said before, I was asked to give an independent review of this paper. That's what I did. BY MR. TISI: Q. If you were asking for an independent review, did you say, you know,

20 there are, you know, in my work in

23 of companies, so.

4 hazard ratio, correct?

Q.

A.

12 their Scenario 4.

17 ovarian cancer --

Α.

O.

24

5

13

18

21 dementia, we're doing things related to

22 clinical trials which are in the interest

1 been talking about recall bias all day in

3 to category four in Table 2, the 1.81

2 the context of the bias analysis that came

7 bias analysis is really their manipulation 8 of outcomes, what they call a correction.

9 And then the recall bias is another step

11 those two things combined are indeed in

So, right, so what I really

Just to be clear for, like,

23 how they came up that number acknowledging

Q. I'm sorry, you're correct,

22 correct. And we have been talking about

21 you're correct. Actually, it's -- yes,

24 the potential for recall bias, correct?

10 kind of on top of that afterwards, but

14 want to focus on, I spent time talking

Well, I think there's two 6 pieces here. What they call quantitative

So we talked about -- we have

Page 346 Page 348 1 let's be fair, true? 1 We've talked about the steps 2 MS. LEHMAN: Object to form. 2 they took to come up with that number and 3 Argumentative. Asked and answered. 3 what they claim is an analysis of recall 4 BY MR. TISI: 4 bias. 5 5 O. When you say it's Well, that's the second step 6 that they did, they acknowledged the 6 independent --7 potential because they were using 7 I would not be doing this if 8 I was not paid. I would not be doing my 8 retrospective data in the -- they used 9 work as a professor if I was not paid for 9 prospective data from the initial 10 it. 10 questionnaire and retrospective data from 11 the supplemental questionnaire and then 11 Q. All right. So it's not my hobby, right. 12 they tried -- they calculated their hazard 12 Α. But your work as a professor 13 Q. 13 ratio, but they did more recall bias, 14 is not being paid by a company who is 14 didn't they? 15 defending their product, true? Your work 15 A. At what point are you saying 16 as a professor is to --16 they didn't --17 A. I'm actually trying to think 17 Q. Well, they acknowledge the 18 of whether there are situations in my work 18 potential for recall bias and then tested 19 as a professor where, I mean, so certainly 19 the hazard ratio to see whether or not

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22 correct?

23

Page 347 10 11 13 15 about how they came up with the 1.81 hazard 16 ratio for the relationship between talc and 18 19 do you mean the 1.82 point in Scenario 4?

Page 349 1 we're -- if we're still talking about 2 Table 2, there's no -- none of their -- the 3 recall bias step is not yet entered when 4 we're here. This is just their 5 contradictory data manipulation plus 6 multiple imputation. Then later on, they 7 have in Figure 2, their recall bias, what 8 they call scenarios, which is really their 9 what-if situations. All right. They say --Q. A. What do you mean by 12 "reasonable"? Well, they're saying that 14 they're basically taking their data and 15 they're saying what if there is recall 16 bias, would we still have a positive 17 association, correct? They are trying to do this 19 through their random flipping process. 20 Okay. And throughout your 21 report, you talk about recall bias, but it 22 is in fact a theoretic concern, true?

20 reasonably there would be a -- that the

A. I would dispute the word 24 "reasonably" there. I think here what

21 risk was likely related to recall bias,

MS. LEHMAN: Object to form. Asked and answered. 88 (Pages 346 - 349)

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23

24

Page 350	Page 352 1 data regarding talc use in the it says
2 Q. In other words, recall bias	2 there was evidence in the Sister Study that
3 is a theoretical concern that those who	3 recall bias was not as significant as to
4 have the disease may differentially recall	4 contaminate the data, correct? You use the
	5 word "contamination." In fact, we talked
5 an exposure compared to those who don't 6 have the disease, correct?	6 about some of the issues before. They did
7 MS. LEHMAN: Same objection.	7 the recall paper in 2023 where they said it
8 THE WITNESS: Are we talking	8 was consistency in recall of talc use.
9 about in this situation here or	9 They looked at the subset of people whose
10 BY MR. TISI:	10 data was truly prospective and saw a
11 Q. I'm talking about generally.	11 positive hazard ratio, although
12 Generally, recall bias is a theoretical	12 statistically not significant.
13 concern that those who have a disease may	So they had evidence that in
14 differentially recall an exposure as	14 this particular population, there was not
15 compared to those who do not have the	15 the evidence of recall bias that would make
16 disease?	16 this data unusable, true?
17 A. I don't know that.	17 MS. LEHMAN: Object to form.
18 MS. LEHMAN: Same objection.	18 THE WITNESS: That was a very
19 THE WITNESS: That's a theory.	long question and I think you begun
20 I think it's something that exists	by saying that there's some you
21 in many problems.	21 try to imply that there's some
22 BY MR. TISI:	level of recall bias that this is
Q. Right. And we know that	below such that it doesn't
24 there are many, many scientists who	contaminate the data. You know, if
Page 351	Page 353
1 question whether or not recall bias really	1 there's any recall bias, it's
2 is as significant as, for example, you are	2 contaminating the data. It's a
3 saying it is, true?	3 question of what level.
4 A. I don't know what they're	4 BY MR. TISI:
5 calling significant versus what I'm saying	5 Q. Right. And when they looked
6 it is. I don't know. I haven't argued	6 at that question objectively, they
7 with anybody about it. I really don't	7 published a paper in 2023 which indicated
8 the question is just super vague.	8 that that was not a big problem with this
9 Q. Okay. Well, in this case,	9 particular dataset, true?
10 the authors of O'Brien (2024), these NIH	10 A. I know, I accept that that's
11 scientists, did not ignore the potential	11 their conclusion. I mean, basically, is
12 for recall bias using the supplemental	12 that first of all, I don't see how they
13 questionnaire in conjunction with the	13 could possibly assess a precise measure of
14 enrollment questionnaire, did they?	14 recall bias when there's no matching
15 A. I mean, they took these steps	15 questions between the two surveys. They
16 where they did things and then they did	16 don't match. They don't align. Even if
17 these what-if adjustments for whatever	17 they did align, thus, pointing to
18 proportions might be recall bias of	18 87 percent agreement, that's 13 percent
19 different scenarios that did they they	19 disagreement. And that's proportionately
20 didn't I mean, it's here in the paper,	20 affected in the cases. That can lead to a
21 so they didn't, like, ignore recall bias as	21 very big amount of recall bias.
21 so they didn't, like, ignore recall bias as 22 being a thing. I mean, they acknowledge	Q. Have you done the math to see
21 so they didn't, like, ignore recall bias as	

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1 introduced by a 13 percent mismatch?	1 studies, and I'll represent to you that
2 A. I don't need to, because I	2 both, and I talked about this before, both
3 actually have the data here in O'Brien	3 the Nurses' Study and the Women's Health
4 (2024) that tells us what the recall the	4 Initiative used a questionnaire after the
5 differential recall actually is here. You	5 study began to talk about telecues. It
6 can see it in table in Table A5, row 4,	6 happens all the time, true?
7 that in overall, 19 percent said nonuser at	7 A. I would want to look at the
8 enrollment, missing at follow-up.	8 specifics of those questionnaires, because
9 Thirty-seven percent of cases, that's	9 there's two different ways you can look at
10 basically kind of you double the non-cases	10 data after the start point of the study.
11 are missing at follow-up after saying they	11 There is kind of like retrospective asking
12 were nonuser at enrollment. That's	12 of questions of what was or this
13 differential recall.	13 longitudinal data gathering where you're
Q. Well, they may be missing in	14 updating information as you go along.
15 follow-up, Doctor, because they died,	15 That's different than trying to
16 right?	16 Q. I understand. I get it. I
A. But that's still the same	17 get it. But if what I'm trying to get
18 problem for the analysis.	18 at here is retrospective data is used by
Q. Well, it's not, that's why	19 epidemiologists and statisticians all the
20 you use multiple imputation, correct?	20 time, true?
21 A. No	21 A. Well, statisticians analyze
MS. LEHMAN: Object to form.	22 retrospective data. Epidemiologists look
23 BY MR. TISI:	23 at retrospective data. It's generally
Q. The data is missing and now	24 preferred to have prospective data. It
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_	
1 you want to look and see whether or not the	1 doesn't mean, like, retrospective data is
1 you want to look and see whether or not the 2 data you have predicts them as being a user	1 doesn't mean, like, retrospective data is 2 something you can learn from, but
1 you want to look and see whether or not the2 data you have predicts them as being a user3 or nonuser, true?	
2 data you have predicts them as being a user	2 something you can learn from, but
2 data you have predicts them as being a user3 or nonuser, true?	2 something you can learn from, but 3 Q. And prospective data
 2 data you have predicts them as being a user 3 or nonuser, true? 4 A. No, this is exactly what I'm 	2 something you can learn from, but 3 Q. And prospective data 4 A but you're facing
 2 data you have predicts them as being a user 3 or nonuser, true? 4 A. No, this is exactly what I'm 5 saying, it introduces the missing not at 	 2 something you can learn from, but 3 Q. And prospective data 4 A but you're facing 5 limitations when you do that.
 2 data you have predicts them as being a user 3 or nonuser, true? 4 A. No, this is exactly what I'm 5 saying, it introduces the missing not at 6 random. You can't just blindly apply 	 2 something you can learn from, but 3 Q. And prospective data 4 A but you're facing 5 limitations when you do that. 6 Q. Prospective data has its own
 2 data you have predicts them as being a user 3 or nonuser, true? 4 A. No, this is exactly what I'm 5 saying, it introduces the missing not at 6 random. You can't just blindly apply 7 multiple imputation. This is your problem. 	 2 something you can learn from, but 3 Q. And prospective data 4 A but you're facing 5 limitations when you do that. 6 Q. Prospective data has its own 7 limitations, for example, prospectively
 2 data you have predicts them as being a user 3 or nonuser, true? 4 A. No, this is exactly what I'm 5 saying, it introduces the missing not at 6 random. You can't just blindly apply 7 multiple imputation. This is your problem. 8 This is one of the problems that I talked 	 2 something you can learn from, but 3 Q. And prospective data 4 A but you're facing 5 limitations when you do that. 6 Q. Prospective data has its own 7 limitations, for example, prospectively 8 collected data can introduce differential
 2 data you have predicts them as being a user 3 or nonuser, true? 4 A. No, this is exactly what I'm 5 saying, it introduces the missing not at 6 random. You can't just blindly apply 7 multiple imputation. This is your problem. 8 This is one of the problems that I talked 9 about, and then also incorporating the 	 2 something you can learn from, but 3 Q. And prospective data 4 A but you're facing 5 limitations when you do that. 6 Q. Prospective data has its own 7 limitations, for example, prospectively 8 collected data can introduce differential 9 misclassification, true, misclassification?
2 data you have predicts them as being a user 3 or nonuser, true? 4 A. No, this is exactly what I'm 5 saying, it introduces the missing not at 6 random. You can't just blindly apply 7 multiple imputation. This is your problem. 8 This is one of the problems that I talked 9 about, and then also incorporating the 10 correct and contradictory data, 11 incorporating the manipulation of data, 12 this is all in there. It's a problem. You	2 something you can learn from, but 3 Q. And prospective data 4 A but you're facing 5 limitations when you do that. 6 Q. Prospective data has its own 7 limitations, for example, prospectively 8 collected data can introduce differential 9 misclassification, true, misclassification? 10 A. The same with retrospective
2 data you have predicts them as being a user 3 or nonuser, true? 4 A. No, this is exactly what I'm 5 saying, it introduces the missing not at 6 random. You can't just blindly apply 7 multiple imputation. This is your problem. 8 This is one of the problems that I talked 9 about, and then also incorporating the 10 correct and contradictory data, 11 incorporating the manipulation of data, 12 this is all in there. It's a problem. You 13 can't just you can't wave a magic wand	2 something you can learn from, but 3 Q. And prospective data 4 A but you're facing 5 limitations when you do that. 6 Q. Prospective data has its own 7 limitations, for example, prospectively 8 collected data can introduce differential 9 misclassification, true, misclassification? 10 A. The same with retrospective 11 data.
2 data you have predicts them as being a user 3 or nonuser, true? 4 A. No, this is exactly what I'm 5 saying, it introduces the missing not at 6 random. You can't just blindly apply 7 multiple imputation. This is your problem. 8 This is one of the problems that I talked 9 about, and then also incorporating the 10 correct and contradictory data, 11 incorporating the manipulation of data, 12 this is all in there. It's a problem. You 13 can't just you can't wave a magic wand 14 and fix this.	2 something you can learn from, but 3 Q. And prospective data 4 A but you're facing 5 limitations when you do that. 6 Q. Prospective data has its own 7 limitations, for example, prospectively 8 collected data can introduce differential 9 misclassification, true, misclassification? 10 A. The same with retrospective 11 data. 12 Q. Right. And so you always 13 have to be careful about biases. It's not, 14 like, one study design is better than
2 data you have predicts them as being a user 3 or nonuser, true? 4 A. No, this is exactly what I'm 5 saying, it introduces the missing not at 6 random. You can't just blindly apply 7 multiple imputation. This is your problem. 8 This is one of the problems that I talked 9 about, and then also incorporating the 10 correct and contradictory data, 11 incorporating the manipulation of data, 12 this is all in there. It's a problem. You 13 can't just you can't wave a magic wand 14 and fix this. 15 Q. Okay. You know that	2 something you can learn from, but 3 Q. And prospective data 4 A but you're facing 5 limitations when you do that. 6 Q. Prospective data has its own 7 limitations, for example, prospectively 8 collected data can introduce differential 9 misclassification, true, misclassification? 10 A. The same with retrospective 11 data. 12 Q. Right. And so you always 13 have to be careful about biases. It's not, 14 like, one study design is better than 15 another. You have to basically look at the
2 data you have predicts them as being a user 3 or nonuser, true? 4 A. No, this is exactly what I'm 5 saying, it introduces the missing not at 6 random. You can't just blindly apply 7 multiple imputation. This is your problem. 8 This is one of the problems that I talked 9 about, and then also incorporating the 10 correct and contradictory data, 11 incorporating the manipulation of data, 12 this is all in there. It's a problem. You 13 can't just you can't wave a magic wand 14 and fix this. 15 Q. Okay. You know that 16 epidemiologists use retrospective data all	2 something you can learn from, but 3 Q. And prospective data 4 A but you're facing 5 limitations when you do that. 6 Q. Prospective data has its own 7 limitations, for example, prospectively 8 collected data can introduce differential 9 misclassification, true, misclassification? 10 A. The same with retrospective 11 data. 12 Q. Right. And so you always 13 have to be careful about biases. It's not, 14 like, one study design is better than 15 another. You have to basically look at the 16 strengths and weaknesses of each study and
2 data you have predicts them as being a user 3 or nonuser, true? 4 A. No, this is exactly what I'm 5 saying, it introduces the missing not at 6 random. You can't just blindly apply 7 multiple imputation. This is your problem. 8 This is one of the problems that I talked 9 about, and then also incorporating the 10 correct and contradictory data, 11 incorporating the manipulation of data, 12 this is all in there. It's a problem. You 13 can't just you can't wave a magic wand 14 and fix this. 15 Q. Okay. You know that 16 epidemiologists use retrospective data all 17 the time, true?	2 something you can learn from, but 3 Q. And prospective data 4 A but you're facing 5 limitations when you do that. 6 Q. Prospective data has its own 7 limitations, for example, prospectively 8 collected data can introduce differential 9 misclassification, true, misclassification? 10 A. The same with retrospective 11 data. 12 Q. Right. And so you always 13 have to be careful about biases. It's not, 14 like, one study design is better than 15 another. You have to basically look at the 16 strengths and weaknesses of each study and 17 then look at it in the context of
2 data you have predicts them as being a user 3 or nonuser, true? 4 A. No, this is exactly what I'm 5 saying, it introduces the missing not at 6 random. You can't just blindly apply 7 multiple imputation. This is your problem. 8 This is one of the problems that I talked 9 about, and then also incorporating the 10 correct and contradictory data, 11 incorporating the manipulation of data, 12 this is all in there. It's a problem. You 13 can't just you can't wave a magic wand 14 and fix this. 15 Q. Okay. You know that 16 epidemiologists use retrospective data all 17 the time, true? 18 A. They use	2 something you can learn from, but 3 Q. And prospective data 4 A but you're facing 5 limitations when you do that. 6 Q. Prospective data has its own 7 limitations, for example, prospectively 8 collected data can introduce differential 9 misclassification, true, misclassification? 10 A. The same with retrospective 11 data. 12 Q. Right. And so you always 13 have to be careful about biases. It's not, 14 like, one study design is better than 15 another. You have to basically look at the 16 strengths and weaknesses of each study and 17 then look at it in the context of 18 everything else that happened, true?
2 data you have predicts them as being a user 3 or nonuser, true? 4 A. No, this is exactly what I'm 5 saying, it introduces the missing not at 6 random. You can't just blindly apply 7 multiple imputation. This is your problem. 8 This is one of the problems that I talked 9 about, and then also incorporating the 10 correct and contradictory data, 11 incorporating the manipulation of data, 12 this is all in there. It's a problem. You 13 can't just you can't wave a magic wand 14 and fix this. 15 Q. Okay. You know that 16 epidemiologists use retrospective data all 17 the time, true? 18 A. They use 19 Q. A control study is a	2 something you can learn from, but 3 Q. And prospective data 4 A but you're facing 5 limitations when you do that. 6 Q. Prospective data has its own 7 limitations, for example, prospectively 8 collected data can introduce differential 9 misclassification, true, misclassification? 10 A. The same with retrospective 11 data. 12 Q. Right. And so you always 13 have to be careful about biases. It's not, 14 like, one study design is better than 15 another. You have to basically look at the 16 strengths and weaknesses of each study and 17 then look at it in the context of 18 everything else that happened, true? 19 MS. LEHMAN: Object to form.
2 data you have predicts them as being a user 3 or nonuser, true? 4 A. No, this is exactly what I'm 5 saying, it introduces the missing not at 6 random. You can't just blindly apply 7 multiple imputation. This is your problem. 8 This is one of the problems that I talked 9 about, and then also incorporating the 10 correct and contradictory data, 11 incorporating the manipulation of data, 12 this is all in there. It's a problem. You 13 can't just you can't wave a magic wand 14 and fix this. 15 Q. Okay. You know that 16 epidemiologists use retrospective data all 17 the time, true? 18 A. They use 19 Q. A control study is a 20 retrospect study?	2 something you can learn from, but 3 Q. And prospective data 4 A but you're facing 5 limitations when you do that. 6 Q. Prospective data has its own 7 limitations, for example, prospectively 8 collected data can introduce differential 9 misclassification, true, misclassification? 10 A. The same with retrospective 11 data. 12 Q. Right. And so you always 13 have to be careful about biases. It's not, 14 like, one study design is better than 15 another. You have to basically look at the 16 strengths and weaknesses of each study and 17 then look at it in the context of 18 everything else that happened, true? 19 MS. LEHMAN: Object to form. 20 THE WITNESS: That's true, but
2 data you have predicts them as being a user 3 or nonuser, true? 4 A. No, this is exactly what I'm 5 saying, it introduces the missing not at 6 random. You can't just blindly apply 7 multiple imputation. This is your problem. 8 This is one of the problems that I talked 9 about, and then also incorporating the 10 correct and contradictory data, 11 incorporating the manipulation of data, 12 this is all in there. It's a problem. You 13 can't just you can't wave a magic wand 14 and fix this. 15 Q. Okay. You know that 16 epidemiologists use retrospective data all 17 the time, true? 18 A. They use 19 Q. A control study is a 20 retrospect study? 21 A. Yes, retrospective for this	2 something you can learn from, but 3 Q. And prospective data 4 A but you're facing 5 limitations when you do that. 6 Q. Prospective data has its own 7 limitations, for example, prospectively 8 collected data can introduce differential 9 misclassification, true, misclassification? 10 A. The same with retrospective 11 data. 12 Q. Right. And so you always 13 have to be careful about biases. It's not, 14 like, one study design is better than 15 another. You have to basically look at the 16 strengths and weaknesses of each study and 17 then look at it in the context of 18 everything else that happened, true? 19 MS. LEHMAN: Object to form. 20 THE WITNESS: That's true, but 21 it's also true that, you know, that
2 data you have predicts them as being a user 3 or nonuser, true? 4 A. No, this is exactly what I'm 5 saying, it introduces the missing not at 6 random. You can't just blindly apply 7 multiple imputation. This is your problem. 8 This is one of the problems that I talked 9 about, and then also incorporating the 10 correct and contradictory data, 11 incorporating the manipulation of data, 12 this is all in there. It's a problem. You 13 can't just you can't wave a magic wand 14 and fix this. 15 Q. Okay. You know that 16 epidemiologists use retrospective data all 17 the time, true? 18 A. They use 19 Q. A control study is a 20 retrospect study? 21 A. Yes, retrospective for this 22 study. And they're also always qualified	2 something you can learn from, but 3 Q. And prospective data 4 A but you're facing 5 limitations when you do that. 6 Q. Prospective data has its own 7 limitations, for example, prospectively 8 collected data can introduce differential 9 misclassification, true, misclassification? 10 A. The same with retrospective 11 data. 12 Q. Right. And so you always 13 have to be careful about biases. It's not, 14 like, one study design is better than 15 another. You have to basically look at the 16 strengths and weaknesses of each study and 17 then look at it in the context of 18 everything else that happened, true? 19 MS. LEHMAN: Object to form. 20 THE WITNESS: That's true, but 21 it's also true that, you know, that 22 there's still a difference in the
2 data you have predicts them as being a user 3 or nonuser, true? 4 A. No, this is exactly what I'm 5 saying, it introduces the missing not at 6 random. You can't just blindly apply 7 multiple imputation. This is your problem. 8 This is one of the problems that I talked 9 about, and then also incorporating the 10 correct and contradictory data, 11 incorporating the manipulation of data, 12 this is all in there. It's a problem. You 13 can't just you can't wave a magic wand 14 and fix this. 15 Q. Okay. You know that 16 epidemiologists use retrospective data all 17 the time, true? 18 A. They use 19 Q. A control study is a 20 retrospect study? 21 A. Yes, retrospective for this	2 something you can learn from, but 3 Q. And prospective data 4 A but you're facing 5 limitations when you do that. 6 Q. Prospective data has its own 7 limitations, for example, prospectively 8 collected data can introduce differential 9 misclassification, true, misclassification? 10 A. The same with retrospective 11 data. 12 Q. Right. And so you always 13 have to be careful about biases. It's not, 14 like, one study design is better than 15 another. You have to basically look at the 16 strengths and weaknesses of each study and 17 then look at it in the context of 18 everything else that happened, true? 19 MS. LEHMAN: Object to form. 20 THE WITNESS: That's true, but 21 it's also true that, you know, that

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	Page 358		Page 360
1	risk of if any bias of it being	1	which is about their main objective and
2	towards the null, but that's not		then the second sentence is what they tried
3	what you're mostly so all bias	3	to do to try to deal with problems that
4	is bad, it's better to not have		they knew they were incorporating by
5	bias, I acknowledge that, but the		reevaluating using the follow-up data.
6	biggest concern is bias away from	6	Q. And when we talk about
7	the null because that's what leads	7	retrospective studies, they also talk about
8	to spurious results. That is the	8	the problems with prospective studies in
9	big concern. That's what the	9	the sentence above, "Although not affected
10	reproducibility crisis is all		by recall bias, prospective studies tend to
11	about. It's artificial detection		have small case numbers and simplified
12	of effects where none exist.		exposure assessments, resulting in low
13 E	BY MR. TISI:		statistical precision and increased
14	Q. Now, looking at the O'Brien		likelihood of nondifferential exposure
15 s	tudy, O'Brien (2024), they did the whole		misclassification." That's true, right?
	hing, they did they dealt with bias,	16	A. I mean, that's quite a
	hey did a bias analysis and they did their	17	generalization that isn't true always. You
	ecall bias analysis and they said that was	18	can have prospective studies
	heir main objective, true?	19	Q. They said tend to have. They
20	A. I don't see that they said	20	didn't say always, they say they tend to
21 tl	· · · · · · · · · · · · · · · · · · ·		have?
22	Q. Look at page 2 of the O'Brien	22	A. It's still a generalization.
23 s	tudy.	23	I don't know. I haven't seen this study
24	A. I see "Key objective, are		that analyzes, like, a random sample of
	Page 359		Page 361
1 h	istory of genital talc use and	1	prospective studies and a random sample of
2 d	louching associated with breast"	2	retrospective studies to determine the
3	Q. Go to page 2, go down on the	3	number of cases. I just want to point out,
4 16	eft-hand side, "Our main objective was to	4	I wouldn't really try to argue too much
5 r	eevaluate the associations between	5	Q. All right.
6 iı	ntimate care product use and incidence of	6	A I mean, if there are
7 h	ormone-related cancers, expanding on	7	certainly situations where you have a
8 p	revious analyses, by incorporating newly	8	retrospective, you choose to do a
9 d	liagnosed ovarian and uterine cancers,	9	retrospective analysis because in that
10 a	dding breast cancer as an outcome, and	10	situation, you might be able to get higher
11 iı	ntegrating new data on lifetime use of	11	case numbers than you could if you tried to
	louche and genital talc. Because the newly		run a prospective study, because it might
	equired exposure data were susceptible to		take you 50 years to get that number of
	lifferential missingness by cancer status,		cases. And so, but I'm not going to accept
	ve used quantitative bias analysis to	15	it in general terms.
	stimate effects under several missingness	16	Q. Let's go to your report,
	ssumptions. When examining the	17	page 34, paragraph 71. And you talk about
	ssociation between genital talc use and		the different scenarios that the authors
	ovarian cancer, we additional evaluated the	19	•
_	ootential of recall bias," true?	20	of recall bias.
21	A. That's what that paragraph	21	A. Yes.
	ays, but I want to just make a distinction	22	Q. And you choose a 50 percent
	between the first sentence there, they're		number to illustrate the potential
101	very long sentences, but the first sentence	24	problems, correct?

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1 MS. LEHMAN: Object to form.	1 to miss them, isn't it?
THE WITNESS: So are you	2 A. It is. But, again, I believe
3 talking about in paragraph B where	3 that the reviewers must have just taken
4 I say 50 percent	4 them at face value.
5 BY MR. TISI:	5 Q. Okay.
6 Q. Correct.	6 A. And I point out in my report
7 A. Yeah, I wouldn't say I'm	7 why this is this is one of those, this
8 choosing that situation, I'm just showing	8 is incredibly misleading. Recall bias
9 an example of	9 Scenario 2 in particular is kind of it's
10 Q. Do you believe that a	10 astounding how they present it.
11 50 percent recall bias number is a	11 Q. Well, let's look at one, A,
12 realistic assessment of the problems in	12 and then let's look at B, and then we'll
13 O'Brien (2024)?	13 look at C.
14 A. I don't know exactly what is	14 A. Okay.
15 a realistic assessment, but I can point you	15 Q. Scenario A has a positive
16 to in, again, the differential recall in	16 risk hazard ratio even if 50 percent of the
17 Table A5 is really, yes, it's that big.	17 cases were switched to never use, correct?
18 It's doubling the cases in terms of	18 A. No, the point estimate of the
19 missingness at follow-up than what it is in	19 hazard ratio is 1.07.
20 controls.	
	20 Q. Correct. 21 A. It's in Table 1. That .07
22 you would ignore the conclusions of O'Brien	22 difference is way within sampling 23 variability when you look at the width of
23 (2023) that says there is not that problem 24 of recall bias, right?	24 the confidence interval there from 0.81
24 of fecali bias, fight?	24 the confidence interval there from 0.81
Page 36 1 A. I don't know that I'm saving	-
1 A. I don't know that I'm saying	1 to
1 A. I don't know that I'm saying 2 that, I mean, ignoring that, this is I'm	1 to 2 Q. Right.
1 A. I don't know that I'm saying 2 that, I mean, ignoring that, this is I'm 3 just looking at the data that's in this	1 to 2 Q. Right. 3 A 1.40. And you can see the
1 A. I don't know that I'm saying 2 that, I mean, ignoring that, this is I'm 3 just looking at the data that's in this 4 paper and that level of differential	1 to 2 Q. Right. 3 A 1.40. And you can see the 4 line very clearly crosses 1.0
1 A. I don't know that I'm saying 2 that, I mean, ignoring that, this is I'm 3 just looking at the data that's in this	1 to 2 Q. Right. 3 A 1.40. And you can see the 4 line very clearly crosses 1.0 5 Q. Right.
1 A. I don't know that I'm saying 2 that, I mean, ignoring that, this is I'm 3 just looking at the data that's in this 4 paper and that level of differential 5 missingness is right there and it's kind of 6 obvious.	1 to 2 Q. Right. 3 A 1.40. And you can see the 4 line very clearly crosses 1.0 5 Q. Right. 6 A which is a plausible
1 A. I don't know that I'm saying 2 that, I mean, ignoring that, this is I'm 3 just looking at the data that's in this 4 paper and that level of differential 5 missingness is right there and it's kind of 6 obvious. 7 Q. Okay. Now, in Table 2, the	1 to 2 Q. Right. 3 A 1.40. And you can see the 4 line very clearly crosses 1.0 5 Q. Right. 6 A which is a plausible 7 value.
1 A. I don't know that I'm saying 2 that, I mean, ignoring that, this is I'm 3 just looking at the data that's in this 4 paper and that level of differential 5 missingness is right there and it's kind of 6 obvious. 7 Q. Okay. Now, in Table 2, the 8 data, tested data, the likelihood of recall	1 to 2 Q. Right. 3 A 1.40. And you can see the 4 line very clearly crosses 1.0 5 Q. Right. 6 A which is a plausible 7 value. 8 Q. Okay. Now, let's look at
1 A. I don't know that I'm saying 2 that, I mean, ignoring that, this is I'm 3 just looking at the data that's in this 4 paper and that level of differential 5 missingness is right there and it's kind of 6 obvious. 7 Q. Okay. Now, in Table 2, the 8 data, tested data, the likelihood of recall 9 bias uses several recall bias scenarios,	1 to 2 Q. Right. 3 A 1.40. And you can see the 4 line very clearly crosses 1.0 5 Q. Right. 6 A which is a plausible 7 value. 8 Q. Okay. Now, let's look at 9 25 percent. If they take 25 percent of the
1 A. I don't know that I'm saying 2 that, I mean, ignoring that, this is I'm 3 just looking at the data that's in this 4 paper and that level of differential 5 missingness is right there and it's kind of 6 obvious. 7 Q. Okay. Now, in Table 2, the 8 data, tested data, the likelihood of recall 9 bias uses several recall bias scenarios, 10 all of which pass peer review, right?	1 to 2 Q. Right. 3 A 1.40. And you can see the 4 line very clearly crosses 1.0 5 Q. Right. 6 A which is a plausible 7 value. 8 Q. Okay. Now, let's look at
1 A. I don't know that I'm saying 2 that, I mean, ignoring that, this is I'm 3 just looking at the data that's in this 4 paper and that level of differential 5 missingness is right there and it's kind of 6 obvious. 7 Q. Okay. Now, in Table 2, the 8 data, tested data, the likelihood of recall 9 bias uses several recall bias scenarios, 10 all of which pass peer review, right?	1 to 2 Q. Right. 3 A 1.40. And you can see the 4 line very clearly crosses 1.0 5 Q. Right. 6 A which is a plausible 7 value. 8 Q. Okay. Now, let's look at 9 25 percent. If they take 25 percent of the 10 cases and reassign them to never use, 11 there's still a 1.4 relative risk and that
1 A. I don't know that I'm saying 2 that, I mean, ignoring that, this is I'm 3 just looking at the data that's in this 4 paper and that level of differential 5 missingness is right there and it's kind of 6 obvious. 7 Q. Okay. Now, in Table 2, the 8 data, tested data, the likelihood of recall 9 bias uses several recall bias scenarios, 10 all of which pass peer review, right? 11 A. That the scenarios pass peer 12 review?	1 to 2 Q. Right. 3 A 1.40. And you can see the 4 line very clearly crosses 1.0 5 Q. Right. 6 A which is a plausible 7 value. 8 Q. Okay. Now, let's look at 9 25 percent. If they take 25 percent of the 10 cases and reassign them to never use, 11 there's still a 1.4 relative risk and that 12 is statistically significant, correct?
1 A. I don't know that I'm saying 2 that, I mean, ignoring that, this is I'm 3 just looking at the data that's in this 4 paper and that level of differential 5 missingness is right there and it's kind of 6 obvious. 7 Q. Okay. Now, in Table 2, the 8 data, tested data, the likelihood of recall 9 bias uses several recall bias scenarios, 10 all of which pass peer review, right? 11 A. That the scenarios pass peer 12 review? 13 Q. Yes.	1 to 2 Q. Right. 3 A 1.40. And you can see the 4 line very clearly crosses 1.0 5 Q. Right. 6 A which is a plausible 7 value. 8 Q. Okay. Now, let's look at 9 25 percent. If they take 25 percent of the 10 cases and reassign them to never use, 11 there's still a 1.4 relative risk and that 12 is statistically significant, correct?
1 A. I don't know that I'm saying 2 that, I mean, ignoring that, this is I'm 3 just looking at the data that's in this 4 paper and that level of differential 5 missingness is right there and it's kind of 6 obvious. 7 Q. Okay. Now, in Table 2, the 8 data, tested data, the likelihood of recall 9 bias uses several recall bias scenarios, 10 all of which pass peer review, right? 11 A. That the scenarios pass peer 12 review? 13 Q. Yes. 14 A. The paper went through peer	1 to 2 Q. Right. 3 A 1.40. And you can see the 4 line very clearly crosses 1.0 5 Q. Right. 6 A which is a plausible 7 value. 8 Q. Okay. Now, let's look at 9 25 percent. If they take 25 percent of the 10 cases and reassign them to never use, 11 there's still a 1.4 relative risk and that 12 is statistically significant, correct? 13 A. The point estimate is 1.41 14 and the confidence interval in that case,
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	Page 366		Page 3
	the recall bias of Scenario 3 is zero when	1	Q if they consider recall
2	they come up with that estimate there.	2	bias at various levels, right?
3	Q. Let's talk about them one at	3	A. Okay. So I think right now
4	a time. Okay?	4	you're specifically referring to the
5	A. Okay.	5	25 percent recall bias level associated
6	Q. What they're saying here	6	with
7	A. No, because these things	7	Q. For example
8	don't exist one at a time	8	A recall bias Scenario 1,
9	Q. I understand. We'll talk	9	but what I'm saying is that you can't
10	about it in	10	this adjustment is conditional on accepting
11	A they're in combination.	11	Scenario 4.
12	Q. Doctor, we'll talk about it	12	Q. Right. And they're saying,
13	in total.	13	it states even if Scenario 4 is inflated
14	A. The total here that	14	and we take 25 percent of the cases and
15	Q. Doctor, Doctor, we'll talk		throw them into never use, we still have a
16	about it in total, I promise you. I've	16	positive risk ratio of 1.4, right?
	just got to get I can only ask one	17	A. No, because what's in
	question at one time. So give me a chance	18	Scenario 4 is more than just recall bias,
	to get through the whole thing and I'll ask		because as we've discussed, there's the
	your opinions because I want to know what	l	feedback loop. There's the amplification
	they are. Okay?		of recall bias that comes from their
22	· ·	l	correction procedure. And so when you
23	ž		think you're correcting 25 percent here,
	take 25 percent of the cases that we		you're not really correcting 25 percent,
1	Page 367 computed are likely to be cases, and we're	1	you're correcting less.
2	going to switch them to never users, we're	$\frac{1}{2}$	Q. Okay. In Scenario B, they
2		2	•
3	going to take user and switch them to never users, there's still a positive risk ratio	3	say that even if you accept 75 percent of the cases and you reassign them, short-term
	•	l	•
	of 40 percent, correct, 41 percent?		users or frequent users to never use, you
6	*	l	still have an increased risk of 1.34,
	ranges from well, the risk the hazard		correct?
	ratio is 1.41, it's not quite the same	8	A. In this case, so the
	thing. And that ranges in a 95 percent		75 percent of infrequent short-term users,
	confidence interval from 1.06 to 1.87. But		and this is really quite, quite incredible,
	this is conditional on you accepting		quite bizarre, and that 75 percent,
	everything they did	l	75 percent sounds like a lot, right? But
13		13	75 percent here is just five people.
4	1 1	14	Q. Okay.
	their Scenario 4, which I don't	15	A. So if all of this you
16		l	talked about, what did we say, there's
	took care of missingness and data	17	
	correction. We took care of that. We're		only, you change their assignment, it comes
9	now testing it for recall bias, right?	19	all the way down from 1.82 down to 1.34.
20		20	Take it to six, you are no longer
21	now they're saying how likely is it that	21	statistically significant.
22	this is a positive association if we	22	Q. There were not 50,000
		22	

Take it to seven and then you

24 would be around about 1.1. And totally not

23

23 consider --

A.

What --

24

Page 372 Page 370 1 statistically significant. 1 infrequent users, you'd have to get almost 2 Doctor, there were not 50,000 2 between 15 or 20 percent of those to do O. 3 ovarian cancer --3 that as well, right? 4 Seven individuals, seven. 4 If they were the only kind of A. 5 There are not 50,000 ovarian 5 recall bias, which I'm pretty sure the O. 6 authors are not claiming that this is the 6 cancer cases in the Sister Study, are 7 there? 7 major source of recall bias, I think that 8 I agree with you. The 50,000 8 would be Scenario A. But if this was the 9 example was to start with --9 only source of recall bias, you would need 10 O. Okay. There's 250 cases --10 a lot to make a really big difference. But 11 as we said earlier, these don't come on 11 A. Right. Doctor --12 their own, so like the Scenario B recall 12 O. 13 A. All right. Seven people out 13 bias, add that onto the Scenario B --14 of 250. You switch their status, your 14 Scenario C and it's just something -- just 15 results are gone, it's disappeared. 15 a few from Scenario B that you flip, and a Let's compare -- let's 16 bit of Scenario C, a bit of Scenario A and 16 17 compare apples to apples. That statement 17 your results just more than disappeared, 18 about 50,000 people compared to seven 18 which was doubling inflated in the first --19 people was misleading, was it not? 19 no, doubling -- again, perhaps late in the 20 MS. LEHMAN: Object to form. 20 day, I shouldn't use that, let's be 21 21 precise, it was an extra inflated hazard Argumentative. 22 BY MR. TISI: 22 ratio in the first place that you get from 23 50,000 -- there were 50,000 23 Scenario 4 and now with these, you've Q. 24 people in the study, only 250 people had 24 really got these different kinds of recall Page 371 1 ovarian cancer, correct? 1 bias in combination and it wouldn't take 2 I agree that I should have 2 much to make it disappear --3 just used the ovarian cancer number, then 3 So let me --Q. 4 whatever at this point. 4 Just again, my report, my --5 Q. Thank you. 5 the central statement in my report is that 6 A. I'm trying to -- it's late in 6 they're not showing a reliable association 7 between talc use and ovarian cancer and 7 the day --8 I understand, me too. 8 this kind of demonstrates that it's not Q. 9 I will say that still seven 9 reliable. Even if you accepted their 10 out of 250 is a very small proportion, such 10 Scenario 4, you can play with these 11 that when you're running a sensitivity 11 scenarios and as many as they came up with 12 analysis and your result disappears with 12 that retain a hazard ratio, I can come up 13 changing as few as a handful of your 13 with a whole new set where the hazard ratio 14 participants. I mean, this is why we do 14 becomes statistically insignificant and 15 sensitivity analysis, we look to see do our 15 disappears. 16 results stand the test if we just -- how 16 O. So in the editorial that 17 much are we relying on our models, our 17 accompanied this, they address that 18 question, don't they? Let's go back to 18 assumptions, and so on, because we really 19 don't want to make statements that are, 19 Exhibit No. 6, which is the Harris, Terry, 20 like, so easily manipulated to disappear. 20 Davis editorial? 21 21 And if you look at section --I'm going to ask you for

22 my -- I understand we're in the middle of

23 towards the question and I'm happy to sort

24 of answer this, but then if we could have a

22 if you look in Scenario 3, if they take

23 people who are non-cases and kind of test

24 them and throw them into the short-term or

Page 27	Page 276
Page 37 1 break again.	Page 376 1 risks based upon the misclassification
2 Q. No question, and just to give	2 scenario provided, this editorial asks that
3 you a sense, I'm kind of there's one	3 the reader do that? Did you do that?
4 area I want to cover that's separate from	4 A. I don't think it asks the
5 this, but I want to get through the recall	5 reader to do that. They say the reader can
6 bias issue and so if you give me some	6 do that if they want to.
7 leeway here, I'll give you some leeway as	7 Q. Did you do that?
8 well. Okay?	8 A. That would be based on all of
9 A. Okay. Then maybe can you	9 the assumptions that O'Brien has taken in
10 just give me 15 seconds to get some water,	10 her correction, manipulation, imputation
11 because I feel my mouth dry	11 approaches
12 Q. Of course.	12 Q. Did you do that?
13 A. Okay.	13 A before getting to the
14 Q. Actually, let's take it now.	14 recall bias.
15 I don't mean for you to be uncomfortable	15 Q. Did you do that?
16 for sure. I just want to get you to bed.	16 A. I think I just described to
17 A. Okay. Thank you.	17 you examples of that, like, flipping seven
18 Q. It's late over there.	18 people would change the result and so
19 A. Yup, much appreciated.	19 forth. I think we went through that whole
20	20 thing of when it would versus when it
21 (A recess was taken at this time.)	21 wouldn't. Yeah, and again, I'm looking for
22	22 something that will indicate that there's
23 BY MR. TISI:	23 reliability in the result.
24 Q. Dr. Kornak, going to Exhibit	Q. Looking at the next page, it
Page 37	
1 No. 6, the fourth paragraph down.	1 says "Given that ovarian and uterine
2 A. Yes.	2 cancers are both gynecologic cancers and
3 Q. Okay. It says "After	3 the reported association with one but not
4 accounting for potential biases or O'Brien	4 the other may not be appreciated by the
5 et al. report a significant increase in	5 general population, one could expect them
6 ovarian cancer for genital powder use, with 7 effect estimates that are in range of	6 to be similarly affected by recall bias.7 Thus, the lack of association between
8 previous studies."	8 genital use and uterine case provides
_	1 0 gential use and uterine ease provides
1 9 (ining down to the end if	
9 Going down to the end, it	9 additional report that recall bias does not
10 says "While the degree of bias is unknown,	9 additional report that recall bias does not10 fully explain the genital powder and
10 says "While the degree of bias is unknown, 11 the reader can make their own assessment	9 additional report that recall bias does not 10 fully explain the genital powder and 11 ovarian cancer association."
10 says "While the degree of bias is unknown,11 the reader can make their own assessment12 about the reasonable range of realistic	 9 additional report that recall bias does not 10 fully explain the genital powder and 11 ovarian cancer association." 12 Do you agree or disagree
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10 says "While the degree of bias is unknown, 11 the reader can make their own assessment 12 about the reasonable range of realistic 13 risks based upon the misclassification 14 scenarios provided. In this paper, even	 9 additional report that recall bias does not 10 fully explain the genital powder and 11 ovarian cancer association." 12 Do you agree or disagree 13 with that? 14 A. I disagree with that.
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10 says "While the degree of bias is unknown, 11 the reader can make their own assessment 12 about the reasonable range of realistic 13 risks based upon the misclassification 14 scenarios provided. In this paper, even 15 with misreporting of the exposure in half	9 additional report that recall bias does not 10 fully explain the genital powder and 11 ovarian cancer association." 12 Do you agree or disagree 13 with that? 14 A. I disagree with that. 15 Q. Why?
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	Page 378		Page 380
1	My main point here is if you	1	again, the main message I wanted to say is,
	look at actually, I have a couple of		like, the differential recall is there
	main points. Let me start with the	1	baked in the data, you see it in
4	straightforward one, if you look at row 4	4	Q. My question is in paragraph
5	of table A5.	1	number 25, you say that this study is
6	Q. Uh-huh.		inconsistent with their prior work. If you
7	A. So I'm just going to the data		would go to that page, that paragraph.
8	here, I'm not relying, not ascribing the	8	A. Yeah, I'd say that's a
	mechanism or anything, but if we look at	9	general kind of statement that
	the differential recall, again, in the	10	Q. Let's
	genital talc column, overall 19 percent.	11	A the prior prospective
	You look at uterine cancer, the cases,		work
	20 percent. Barely any differential recall	13	Q. Let's look at them, if you
	there. You look at postmenopausal breast,		don't mind?
	21 percent. Barely any differential recall	15	A. Oh, sure, yeah.
	there. I mean it's not nothing, but it's	16	
17	_	1	Gonzalez study again. You say Gonzalez
18	You look at the		finds a hazard ratio of .73.
	premenopausal breast cancer, that's a	19	Do you see that?
	little bit higher at 27, but it's still	20	A. I say that they estimate a
	very small compared to the difference		hazard ratio.
	between 37 and 19. That differential	22	Q. That wasn't for lifetime use,
	recall is massive.		was it?
24	So why why I gave you	24	A. Sorry?
	Page 379		Page 381
1	Page 379 one possibility as to why there's that	1	Q. That wasn't for lifetime use,
		1 2	Q. That wasn't for lifetime use,
	one possibility as to why there's that		Q. That wasn't for lifetime use,
2 3	one possibility as to why there's that difference, that the bigger stories were	2 3	Q. That wasn't for lifetime use, was it?
2 3 4	one possibility as to why there's that difference, that the bigger stories were about talc use and ovarian cancer rather	2 3 4	Q. That wasn't for lifetime use, was it? A. That was for I don't know
2 3 4 5	one possibility as to why there's that difference, that the bigger stories were about talc use and ovarian cancer rather than douching, but it's here in the data.	2 3 4 5	Q. That wasn't for lifetime use, was it? A. That was for I don't know to the extent that I mean, the question
2 3 4 5 6	one possibility as to why there's that difference, that the bigger stories were about talc use and ovarian cancer rather than douching, but it's here in the data. The differential recall is clearly there in O'Brien's own data that is much bigger in ovarian cancer than the other types.	2 3 4 5 6	Q. That wasn't for lifetime use, was it? A. That was for I don't know to the extent that I mean, the question they asked their participants was whether
2 3 4 5 6 7 8	one possibility as to why there's that difference, that the bigger stories were about talc use and ovarian cancer rather than douching, but it's here in the data. The differential recall is clearly there in O'Brien's own data that is much bigger in ovarian cancer than the other types. Q. I'm going to ask you a couple	2 3 4 5 6 7 8	Q. That wasn't for lifetime use, was it? A. That was for I don't know to the extent that I mean, the question they asked their participants was whether they used between the ages of 10 to 13 or in the last 12 months. To the extent that that's representative of lifetime use,
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	one possibility as to why there's that difference, that the bigger stories were about talc use and ovarian cancer rather than douching, but it's here in the data. The differential recall is clearly there in O'Brien's own data that is much bigger in ovarian cancer than the other types. Q. I'm going to ask you a couple of questions related to your paragraph number A. I want to finish with, sorry, it's going to take me a second to just find the third piece that I wanted to so, for example, I think Table 2, if we look at uterine cancer, it goes on to the next page. No, it's not that there's no the recall bias is definitely not there. As you go from Scenario 1 to Scenario 2, it states that but then it does increase with Scenario 3. It's a very small increase with Scenario 4 there. I mean, it's negligible. It goes from .98 to 1.01.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. That wasn't for lifetime use, was it? A. That was for I don't know to the extent that I mean, the question they asked their participants was whether they used between the ages of 10 to 13 or in the last 12 months. To the extent that that's representative of lifetime use, that's what this hazard ratio represents. Q. They say if you go to the end, the last sentence on page 7, they say on page 7, it says "In this large, prospective study, we did not observe an association between recently talc use and ovarian cancer." Do you see that, not lifetime use? A. Well, the definition includes 10 to 13, so I don't know that that may or may not be recent for Q. Well, they talk about 10 to 13, they didn't have a lot of data, it was mostly the year, the year before that they

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- I don't recall -- I don't 2 recall them saying that they only have data
- 3 on the last year, but not on 10 to 13. Can
- 4 you point me to where that is?
- Well, in any event, because
- 6 I'm trying to wrap this up, they talk
- 7 about -- they talk about that this is an
- 8 association between recent use and, of
- 9 course, O'Brien (2025) [sic] talks about
- 10 lifetime use, right?
- In this paper, they do use 11
- 12 the term "recent talc use." In O'Brien
- 13 (2024), not '25, we're not there yet. In
- 14 2024, they do say they're examining
- 15 lifetime use.
- 16 Q. The next one is O'Brien
- 17 (2020), that's Exhibit 25 in your book.
- 18 A. Yes.
- 19 Okay. In this study, they
- 20 make clear that looking at women with
- 21 patent tubes is an important subgroup to
- 22 look at?

1

- 23 Okay. Do you want to point A.
- 24 me to the section?

- 1 there is an adjusted hazard ratio of 1.13
- 2 that goes from 1.01 at the lower end of
- 3 plausible values through to 1.26. But I
- 4 would caution in the interpretation of that
- 5 is if I was working with anybody on a
- 6 project where their confidence interval
- 7 went down that low, I would want them to be
- 8 able to deal with does that reach a
- 9 clinically significant level. Could it be
- 10 due to any biases or assumptions or model
- 11 assumptions or a reverse error results
- 12 robust to that lower confidence interval
- 13 that we really want to make the claim that
- 14 we have a statistically significant result.
- 15 And, in this case, I know I
- 16 already was suspicious, this is -- being a
- 17 combination of studies, you're always
- 18 subject to publication bias inflating
- 19 hazard ratios. And then you in addition
- 20 earlier in this deposition pointed out to
- 21 me that one of the studies was actually
- 22 using retrospective information. So then
- 23 there's recall bias in there. So then I
- 24 would not want to rely on that 1.01 being

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2 page 51, it says on the right-hand side, it

Sure. They talk about on

- 3 says "Because patency is required for there
- 4 to be a direct physical pathway between the
- 5 powder application area and the ovaries, we
- 6 hypothesized a priori that women with
- 7 patent reproductive tracts would be more
- 8 susceptible to the effects of powder use in
- 9 the genital area on ovarian cancer. We
- 10 therefore conducted analyses restricted to
- 11 this subgroup. When estimating the effects
- 12 of duration of powder on ovarian cancer
- 13 risk, we compared long-term, greater than
- 14 20 years, and non-long-term users with
- 15 never users."
- 16 Do you see that?
- 17 Yes. A.
- 18 Okay. And if you look at the
- 19 data when they looked at women with intact
- 20 tubes on Table 2, the overall risk ratio
- 21 was 1.13 with a hazard -- with a confidence
- 22 interval that does not cross one, correct?
- Table 2? So in the pooled
- 24 estimate, yes, what you're highlighting

- 1 genuinely above one. So this is --
- 2 Q. But this is in the section 3 where you say that the results of the 2024
- 4 were inconsistent with the results of her
- 5 prior studies. We demonstrated that
- 6 Gonzalez was only looking at recent talc
- 7 use, correct? And now we're looking at
- 8 O'Brien (2020), which talks about a
- 9 statistically significant increased risk in
- 10 cohort data using prospective data, which
- 11 in women who did not have hysterectomy,
- 12 true?
- 13 I think that's not quite
- 14 true. You already told me that part of
- 15 this is retrospective --
- 16 No, not this part --Q.
- 17 Well, the consistency should
- 18 be compared against the Sister Study and if
- 19 we look at the, you know, across the
- 20 studies, you can see that the hazard ratios
- 21 here are --
- 22 O. Doctor --
- 23 -- far from being
- 24 statistically significant from one, but

97 (Pages 382 - 385)

	D 404		P. 000
1	Page 386	1	Page 388
$\frac{1}{2}$	this is what I was it's my Q. In your report, in your		bring it up on the screen. Can you go to where she's one of the authors, she and
$\frac{2}{3}$	report?		Dr. Wentzensen are one of the authors of
4	A report that I was writing		this paper. It says "In the largest
5	about, it was inconsistent.	5	prospective study so far, the OC3 found a
6	Q. I'm not fussing	_	very small positive association between
7	A. In a hazard ratio estimate of	7	genital powder use and ovarian cancer risk
8	1.84 is inconsistent with one at 1.13. In		among all women, 1.08, as well as among
"	fact, it's inconsistent with the whole		women with intact uterus and fallopian
	confidence interval by a factor of four.		tubes, 1.13."
11	Q. You know that	11	Isn't it true, Doctor, when
12	A. So		they describe the results of 2024 I'm
13	Q. You know that Dr. O'Brien		sorry, 2020, they see a positive
	has said, because you looked at her		association in the pooled study of cohorts?
	response to the letter to the editor, she	15	A. Well, that has a duration of
	has said that she thought that the actual		1.08 is a point estimate, it's not
	risk was greater than 1.13, correct?		statistically significant that
18	A. I don't recall her saying	18	Q. Right, but
	that. I don't dispute that she did.	19	A. The confidence interval has a
20	Q. Okay. And you know that in		plausible value of one and the
	her in subsequent publications, she		confidence interval crosses one, it has a
	agreed that there was a positive		plausible value of .99 or one.
	association, true, even in her 2020 study?	23	Q. Right. And then they say
24	·	1	taken into context with the ovarian cancer
2-		2-7	
1	Page 387	1	Page 389
	her I remember seeing somewhere that		with the women with patent tubes, there's a
$\begin{vmatrix} 2 \\ 2 \end{vmatrix}$	• •	$\frac{2}{3}$	positive association consistent with an association, true?
3	specific, I know you're concerned about time.	4	A. So in that case, there's
5			
- I			we're referring to the hazard ratio point estimate of 1.13 there with a
6	A. But I know she said that, you		
	know, that in her response to a statement that she isn't wasn't ruling out that	8	Q. Yes.A 5 percent confidence
	there is a possible positive association		interval of 1.01 to 1.26. Again, I just
	I'm not making that claim that it's	1	would be very cautious about whether or not
	impossible there's a positive association.		I wanted to say that we have a result here
	I'm just saying that there's no reliable	1	given that the lower end is 1.01
13		13	Q. And we will
14	Q. Let's look, this is in a	14	A which is entirely subject
	section where you're talking about her		to assumptions. But I also, I'm not sure
	conclusion of a positive association in		what data goes into this analyses and
	O'Brien (2024) is inconsistent with her	1	whether there's retrospective components or
	prior studies. So let's look at Exhibit		not and the potential for recall bias, so I
10	Prior studies. So let's fook at Exhibit	10	inot and the potential for recall blas, so I

20

21

24

19 just want to --

So you don't know?

22 to walk me through it, I would probably

23 give you a better answer.

If you want to take the time

I understand, but you don't

19 No. 13, if you would. It's an exhibit we

20 looked at before and if you go to -- can

21 you go to the page, I don't know what

22 number it is, it's exhibit -- it's page 13,

24 paginated, so if you want to try to just

23 I believe, and this document is not

	Page 390		Page 392
1	have an opinion right now? I mean, they	1	of .91 to 1.24 and you refer to the
	are saying, they know their own data and	l	•
3	they say there's a positive association	3	Do you see that?
4	particularly in women with patent tubes and	4	A. On the screen at the moment
5	that's a positive association, true?	5	is the paper itself. I'm referring to the
6	A. Yeah, but I think you	6	appendix.
7	started well, it's one point	7	Q. Now, if you go to the 21, if
8	Q. That's what they say?	8	you don't mind, on page 21, because I have
9	A. As a point estimate, it's a	9	that up here. It says this is the chart S4
10	positive association. But in the same way	10	and it says "Association between
11	as case-control studies, if there's any	11	one-frequency category increase in use of
12	recall bias in there that's statistically	12	single personal care product, breast,
13	significant, it's so on the boundary. I	13	ovarian, uterine cancer using Cox
14	explained before, if that happened in a	14	proportional hazards models."
15	study I was involved in, and that was, we	15	Do you see that?
16	considered that to be a central result of	16	A. Okay, I've got the table,
17	the study, I would I would pull all the	17	yes.
18	stops out to do every kind of sensitivity	18	Q. And actually if you go to the
19	analysis I could and question any potential	19	next page is where you see at the top, you
20	sources of bias that could be meaning to	20	see the number that you pull out, which is
21	you to have that marginal	21	1.0. Talc vaginal use, I think you have
22	Q. Of course, you didn't even	22	1.07 with a .94, 1.23.
23	know about the ovarian	23	Do you see that?
24	A. Again, going back to your	24	A. Yes.
	D 201		
	Page 391		Page 393
	earlier question, you were relating to	1	Q. Okay. But that's in
2	earlier question, you were relating to whether or not it was consistent with		Q. Okay. But that's in relationship to what they call that's
3	earlier question, you were relating to whether or not it was consistent with O'Brien (2024). The O'Brien (2024)	2 3	Q. Okay. But that's in relationship to what they call that's not the overall risk ratio, that is a
2 3 4	earlier question, you were relating to whether or not it was consistent with O'Brien (2024). The O'Brien (2024) preferred analysis, they're talking about a	2 3 4	Q. Okay. But that's in relationship to what they call that's not the overall risk ratio, that is a one-frequency category increase, correct?
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2 3 4 5 6	earlier question, you were relating to whether or not it was consistent with O'Brien (2024). The O'Brien (2024) preferred analysis, they're talking about a hazard ratio of 1.84. They're not talking about	2 3 4 5 6	Q. Okay. But that's in relationship to what they call that's not the overall risk ratio, that is a one-frequency category increase, correct? A. Yes. Q. Okay. And what is a
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	earlier question, you were relating to whether or not it was consistent with O'Brien (2024). The O'Brien (2024) preferred analysis, they're talking about a hazard ratio of 1.84. They're not talking about Q. But they both showed a positive association? A. Sorry? Q. We can talk about the strength of the association, but they both showed a positive association, right? A. But that's not what I mean by consistency. If you're going to have consistent results, you know, it's like saying I have five apples or 5,000 apples and saying that's the same thing, it's not the same thing. Q. The next one is Chang, you refer to the Chang study. Let's talk about that briefly. It's Exhibit No. 22 in your book. And your report says that the	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Okay. But that's in relationship to what they call that's not the overall risk ratio, that is a one-frequency category increase, correct? A. Yes. Q. Okay. And what is a one-frequency category increase? A. I have to remind myself of that. Q. Well, let me see if I can help you, Doctor, because I know it's getting late. Let me see that if I can help you. Go to page 14 of the article in the conclusion. Do you see that? Did you actually read this paper? A. I don't think I read it completely. Q. Okay. They say A. I assumed I looked at the paper. Q. Well, did the lawyers point out to you the 1.06 confidence or relative
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	earlier question, you were relating to whether or not it was consistent with O'Brien (2024). The O'Brien (2024) preferred analysis, they're talking about a hazard ratio of 1.84. They're not talking about Q. But they both showed a positive association? A. Sorry? Q. We can talk about the strength of the association, but they both showed a positive association, right? A. But that's not what I mean by consistency. If you're going to have consistent results, you know, it's like saying I have five apples or 5,000 apples and saying that's the same thing, it's not the same thing. Q. The next one is Chang, you refer to the Chang study. Let's talk about that briefly. It's Exhibit No. 22 in your	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	Q. Okay. But that's in relationship to what they call that's not the overall risk ratio, that is a one-frequency category increase, correct? A. Yes. Q. Okay. And what is a one-frequency category increase? A. I have to remind myself of that. Q. Well, let me see if I can help you, Doctor, because I know it's getting late. Let me see that if I can help you. Go to page 14 of the article in the conclusion. Do you see that? Did you actually read this paper? A. I don't think I read it completely. Q. Okay. They say A. I assumed I looked at the paper. Q. Well, did the lawyers point

p _e	age 394 Page 39
1 A. No.	1 making some big assumption, it was that I
2 MS. LEHMAN: Object to form.	
3 BY MR. TISI:	3 Q. Well, your report
4 Q. Well, it says "Although the	4 A read the totality of this
5 observed effects of a one-frequency level	5 particular paper.
6 increase was modest in magnitude, the	6 Q. In your report, just to be
7 impact would be more substantial when	7 clear, your report says Chang uses data
8 comparing the most frequent users with	8 from the Ovarian Cancer Institute, 2003 to
9 never users. For example, an 8 percent	9 2020, the estimate and HR summarizes the
10 higher hazard of postmenopausal breast	10 association between genital talc and
11 cancer for one-frequency level increase in	
12 the beauty mixture could translate to	12 assumed and that's not true, is it?
13 approximately a 36 percent higher hazard	13 A. I said that's not completely
14 ratio for the most frequent users compared	1 7
15 to never users."	15 Q. It's one-level increase and
16 Do you see that?	16 for more frequent users in this data, it's
17 A. I do see that.	
	17 approximately 30 percent, correct?18 MS. LEHMAN: Object to form.
	19 THE WITNESS: Well, okay.
<u> </u>	
20 they're using an 8 percent ratio and	· · · · · · · · · · · · · · · · · · ·
21 they're talking about if you add the	
22 numbers together or multiply them the way	
23 you should, if it was more frequent user,	23 interval. That confidence interval
24 that number would be close to 30 percent,	24 could be because there would be
1 right, for talc users?	Page 39 less data go into that, it could be
2 A. Okay. So there's quite a bit	2 much wider. An 8 percent, of
3 to unpack there. I still would like to	3 course, not everybody who is a user
4 know what the definition is of a	4 is in that category. So on
5 one-frequency level change.	5 average, users versus nonusers
6 Q. You relied on this paper, you	6 would likely be somewhere in
11,5	
7 don't know?	,
7 don't know? 8 A No I don't recall	7 between those estimates. I don't
8 A. No, I don't recall.	 between those estimates. I don't know where in between those
8 A. No, I don't recall.9 Q. Okay. And so	 between those estimates. I don't know where in between those estimates.
 8 A. No, I don't recall. 9 Q. Okay. And so 10 A. I haven't read it completely, 	7 between those estimates. I don't 8 know where in between those 9 estimates. 10 BY MR. TISI:
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	Dags 200		Page 400
1	Page 398 And could be as much as 30 percent, which	1	Page 400 unreliable
	is consistent with all the other studies	2	Q. Their study from 2024 I'm
3	that were out there, right?	3	sorry, let me rephrase the question. You
4			disagree with the NIH scientists who
	MS. LEHMAN: Object to form.	4	•
5	THE WITNESS: No, I mean,	5	published in O'Brien (2024) a study that
6	it's it might be consistent with	6	appeared in the peer-reviewed literature
7	many case-control studies out there		regarding the likelihood of recall bias
8	to be around 30 percent. But		affecting the Sister Study cohort, you
9	certainly not consistent with		disagree with them, true?
10	cohort studies and never not with	10	A. I would rephrase it and say
11	prospective cohort studies.		that I have, as I've expressed in my
12			report, I have I disagree with
13	(Stenographer clarification.)		assumptions and approaches taken in O'Brien
14			(2024) and that I have problems with their
15	THE WITNESS: And not		manipulation, correction, imputation
16	consistent with cohort studies and	16	approach to
17	certainly not consistent with	17	Q. And you think that the peer
18	prospective cohort studies. I	18	reviewers, you think the peer reviewers who
19	think that's my best guess at what	19	looked at this paper didn't understand or
20	I said.	20	missed the obvious flaws in this study,
21	BY MR. TISI:	21	true?
22	Q. Can you	22	MS. LEHMAN: Object to form.
23	A. So, it's actually midnight	23	Asked and answered.
24	here, I mean I don't know how much	24	THE WITNESS: They missed,
	Page 399		Page 401
1	longer	1	didn't understand, didn't dig into
2	Q. I'm going to wrap it up.	2	reviews, I don't know. I can't
3	I've got about four or five questions and	3	comment on what was in their minds.
4	if you'll answer them directly, I'll be	4	What I can comment on is that those
5	done.	5	flaws exist in the paper, these
6	A. I can't guarantee that, but	6	problems exist in the paper, and
7	I'll do my best.	7	the paper did get through peer
8	Q. All right. We agreed that	8	review, so.
9	before May 20, 2024, when you met with the	9	BY MR. TISI:
1	J&J lawyers, you had never looked at the	10	Q. And you disagree with
	issue of talc and ovarian cancer, correct?	11	scientists like Harris and Terry who were
12	MS. LEHMAN: Object to form.		invited to do an editorial, who thought
13	THE WITNESS: If I saw it in a		that recall bias does not explain the
14	news article somewhere, I may have	14	genital powder and ovarian cancer
15	noted it in my brain, but I did not	15	association, correct?
16	research it and look into it.	16	MS. LEHMAN: Objection. Asked
	BY MR. TISI:	17	and answered.
18	Q. And in your report, you	18	THE WITNESS: I disagree with
19	The state of the s	19	their conclusion about the O'Brien
20	_	20	(2024) paper. I disagree with
1	· ·	20	
21	peer-reviewed journal, but multiple studies		their general conclusions. I
22		22 23	believe that the paper does not
23 24	• •	23 24	reliably demonstrate an association
1 /4	A. I do not call NIH scientists	<i>∠</i> 4	between talc use and ovarian

	Page 402		Page 404
1	cancer.		lawyers, correct?
	BY MR. TISI:	2	MS. LEHMAN: Object to form.
3	Q. And you disagree with the	3	THE WITNESS: The only place I
l .	American Society of Clinical Oncology who	4	have written down my opinions is in
	said that this was a robust and good	5	the report.
	analysis of the Sister data incorporating	6	BY MR. TISI:
l .	rigorous adjustments for bias that may have	7	Q. Which you started three days
	affected earlier studies? You disagree	8	after meeting Johnson & Johnson's lawyers,
	with them as well, correct?	9	true?
10	MS. LEHMAN: Objection. Asked	10	MS. LEHMAN: Object to form.
11	and answered.	11	THE WITNESS: I believe
12	THE WITNESS: I disagree with	12	that's that after, you know,
13	their statement. I'm not, like,	13	many hours of reviewing the paper,
14	looking to disagree with them as	14	I started drafting, yeah, within
15	individuals. I'm not just making	15	three days.
16	up disagreements. My report was		BY MR. TISI:
17	about the paper. I explicitly	17	Q. And you never sought and do
18	state the problems of the paper. I		not intend to seek to publish your findings
19	explicitly state why there are		or your conclusions outside the courtroom,
20	problems. I don't see anywhere		true?
21	where in any of those editorials	21	A. Yeah, I have no intention of
22	that you describe that they go into		doing that.
23	those details in any way. I don't	23	Q. Okay. And the opinions that
24	see anywhere they do that.	24	you've given in this case, you have been
	Page 403		Page 405
1	BY MR. TISI:	1	paid and will be paid over \$100,000, true?
2	Q. And you disagree with the	2	MS. LEHMAN: Object to form.
	NIH, which said the bias analysis was	3	THE WITNESS: For writing my
l .	rigorous and the study provides compelling	4	report, for reading materials, for
l .	evidence of genital talc use is associated	5	preparing for deposition, for all
6	with an increased risk of ovarian cancer,	6	of the time I've spent in putting
7	you disagree with them as well, right?	7	together my independent assessment
8	MS. LEHMAN: Object to form.	8	of O'Brien (2024) and related
9	Asked and answered.	9	materials, yes, the total comes to
10	THE WITNESS: It's not about I	10	over 100,000.
11	disagree with their conclusion,		BY MR. TISI:
12	but, again, there's no particular	12	Q. And you were located in this
13	aspect where they've gone into the		case through a headhunter called
14	details of what I've argued with		Cornerstone, because you had been involved
15	they're saying there's something I		in other cases going back almost ten years
16	said that's incorrect. They don't		as a litigation expert for law firms, true?
17	go into the details. So there's	17	MS. LEHMAN: Object to form.
18	kind of	18	Asked and answered. And you're now
	BY MR. TISI:	19	at seven hours and one minute, so
20	Q. And the only and the only	20	this is the last question.
		21	THE WITNESS: Cornerstone is a
l .	opinion was in your report that you	22	company. I don't know that I would
23	authored, that you started writing three	23	describe them as headhunters. And,
	days after receiving the study from the	24	like I say, and I've said before, I

	Page 406		Page 408
1	don't know the details of the	1	took the same approach.
2	operation of the company. They did		BY MS. LEHMAN:
3	approach me. I don't have any	3	Q. Okay. And have you used the
4	relationship with them that goes	4	same biostatistical tools that you use in
5	back ten years. They contacted me	5	your everyday work and that you teach to
6	and asked me about the case and	6	your students?
7	whether I would be willing to take	7	MR. TISI: Objection.
8	a look at O'Brien (2024) and	8	THE WITNESS: Yes.
9	consider providing an independent	_	BY MS. LEHMAN:
10	assessment.	10	Q. I'm sorry, Dr. Kornak, I
	BY MR. TISI:	11	· · · · · ·
12	Q. And be an expert in	12	•
13	litigation?	13	A. Yes.
14	MS. LEHMAN: You don't need to	14	Q. And do you hold the opinions
15	answer that. Counsel's time is		that are set out in your report to a
16	over.		reasonable degree of scientific certainty?
17	MR. TISI: I disagree. You're	17	A. Yes.
18	going to instruct him not to answer	18	Q. Okay. Have you used multiple
19	that question?		imputation in your publications, in the
20	MS. LEHMAN: Counsel, you have		studies that have been published?
21	*	21	A. Yes, I'm sure I have, but I
$\begin{vmatrix} 21\\22\end{vmatrix}$	asked this question. MR. TISI: You're going to		would struggle right here right now to say
23	instruct him		which ones.
24	MS. LEHMAN: I'm telling you,	24	
24		24	Q. Okay. You talked to counsel
1	your time is up.	1	Page 409 earlier about something that I think you
2	MR. TISI: Because I disagree.	2	called Bayesian analysis; is that correct?
3	So are you going to tell him not to	3	A. Uh-huh.
4	answer that question?	4	Q. Okay. And what is is
5	MS. LEHMAN: I am. I am.	5	there a relationship between Bayesian
6	MR. TISI: Okay. Have a good		analysis and imputation?
7	day, Dr. Kornak. Good evening.	7	A. Yes, there is. Kind of like
	BY MS. LEHMAN:		a Bayesian analysis involves having you
9	Q. All right. Dr. Kornak, I		can build in observed variables and
	have a few questions for you. Dr. Kornak,		unobserved variables. And the unobserved
	are your opinions in this case fully set		variables would be, you consider missing
	out in your report?		data to be unobserved variables within a
13	A. Yes.		Bayesian analysis. So they are very much
			related.
	O. And are the opinions that you	14	
14	Q. And are the opinions that you express in your report, have you done and		O. Okay, And is Bayesian
14 15	express in your report, have you done and	15	Q. Okay. And is Bayesian analysis an approach of statistical
14 15 16	express in your report, have you done and performed the same types of analysis that	15 16	analysis an approach of statistical
14 15 16 17	express in your report, have you done and performed the same types of analysis that you do in your biostatistical work outside	15 16 17	analysis an approach of statistical inference?
14 15 16 17 18	express in your report, have you done and performed the same types of analysis that you do in your biostatistical work outside of the courtroom?	15 16 17 18	analysis an approach of statistical inference? MR. TISI: Objection.
14 15 16 17 18 19	express in your report, have you done and performed the same types of analysis that you do in your biostatistical work outside of the courtroom? MR. TISI: Objection.	15 16 17 18 19	analysis an approach of statistical inference? MR. TISI: Objection. THE WITNESS: It's an approach
14 15 16 17 18 19 20	express in your report, have you done and performed the same types of analysis that you do in your biostatistical work outside of the courtroom? MR. TISI: Objection. THE WITNESS: These are the	15 16 17 18 19 20	analysis an approach of statistical inference? MR. TISI: Objection. THE WITNESS: It's an approach of statistical modeling and
14 15 16 17 18 19 20 21	express in your report, have you done and performed the same types of analysis that you do in your biostatistical work outside of the courtroom? MR. TISI: Objection. THE WITNESS: These are the same kind of approach I take to	15 16 17 18 19 20 21	analysis an approach of statistical inference? MR. TISI: Objection. THE WITNESS: It's an approach of statistical modeling and inference.
14 15 16 17 18 19 20	express in your report, have you done and performed the same types of analysis that you do in your biostatistical work outside of the courtroom? MR. TISI: Objection. THE WITNESS: These are the	15 16 17 18 19 20 21	analysis an approach of statistical inference? MR. TISI: Objection. THE WITNESS: It's an approach of statistical modeling and

	D 440		5 44
1	Page 410	1	Page 412
	you've done as a biostatistician in your		A. I would need to remind myself of it exactly where that is.
	years as a professor, does O'Brien (2024)	$\frac{2}{3}$	•
1 .	show an association between genital talc use and ovarian cancer?		
4			, , ,
5	MR. TISI: Objection.		It's in the notebook at tab 16. And if you
6	THE WITNESS: No, they do not	6	look at page 7 at the last paragraph above the word "discussion."
7	show an association. BY MS. LEHMAN:	· ·	
8		8	A. Yes.
9	Q. Okay. Based on your	9	Q. Okay.
	education, your training, your work as a		A. Yes, so it talks about the
	biostatistician, your years as a		trend being reversed among those with
	professor actually, strike that. Let me		intervening ovarian cancer diagnosis with
	ask a different question.		28 percent self-reporting genital talc use
14	Does O'Brien (2024)		at enrollment and 33 percent reporting
	specifically state that their results do		genital talc at the follow-up
	not establish causality and do not	1	questionnaire.
	implicate any specific cancer-inducing	17 18	Q. And then to move on
	agent? A. Yes.		A. This was the only subgroup
19			for which the proportion of users increased
20	Q. All right. Is recall bias		between enrollment and follow-up.
	real or is that only a theoretical	21	Q. And did they say that that could indicate recall bias
23	possibility?	23	
$\begin{vmatrix} 23 \\ 24 \end{vmatrix}$	MR. TISI: Objection. Asked and answered.		A. And it could indicate, yeah, it could indicate recall bias, i.e.,
24	and answered.	24	it could illulcate recall blas, i.e.,
1	Page 411	1	Page 413
1	THE WITNESS: It exists.		overreporting of talc use among those with
2	THE WITNESS: It exists. BY MS. LEHMAN:	2	overreporting of talc use among those with a history of ovarian cancer.
2 3	THE WITNESS: It exists. BY MS. LEHMAN: Q. All right. And does O'Brien	2 3	overreporting of talc use among those with a history of ovarian cancer. Q. We looked at O'Brien (2024) a
2 3 4	THE WITNESS: It exists. BY MS. LEHMAN: Q. All right. And does O'Brien (2024) specifically state that the	2 3 4	overreporting of talc use among those with a history of ovarian cancer. Q. We looked at O'Brien (2024) a lot. And what the question I have there
2 3 4 5	THE WITNESS: It exists. BY MS. LEHMAN: Q. All right. And does O'Brien (2024) specifically state that the participants reporting talc use could be	2 3 4 5	overreporting of talc use among those with a history of ovarian cancer. Q. We looked at O'Brien (2024) a lot. And what the question I have there is does the O'Brien (2024) article contain
2 3 4 5 6	THE WITNESS: It exists. BY MS. LEHMAN: Q. All right. And does O'Brien (2024) specifically state that the participants reporting talc use could be recalling products that contain talc,	2 3 4 5 6	overreporting of talc use among those with a history of ovarian cancer. Q. We looked at O'Brien (2024) a lot. And what the question I have there is does the O'Brien (2024) article contain a disclaimer that the work was funded by
2 3 4 5 6 7	THE WITNESS: It exists. BY MS. LEHMAN: Q. All right. And does O'Brien (2024) specifically state that the participants reporting talc use could be recalling products that contain talc, cornstarch, or a mixture and women may have	2 3 4 5 6 7	overreporting of talc use among those with a history of ovarian cancer. Q. We looked at O'Brien (2024) a lot. And what the question I have there is does the O'Brien (2024) article contain a disclaimer that the work was funded by the National Institutes of Health, but that
2 3 4 5 6 7 8	THE WITNESS: It exists. BY MS. LEHMAN: Q. All right. And does O'Brien (2024) specifically state that the participants reporting talc use could be recalling products that contain talc, cornstarch, or a mixture and women may have used different products at different times?	2 3 4 5 6 7 8	overreporting of talc use among those with a history of ovarian cancer. Q. We looked at O'Brien (2024) a lot. And what the question I have there is does the O'Brien (2024) article contain a disclaimer that the work was funded by the National Institutes of Health, but that the National Institutes of Health had no
2 3 4 5 6 7 8 9	THE WITNESS: It exists. BY MS. LEHMAN: Q. All right. And does O'Brien (2024) specifically state that the participants reporting talc use could be recalling products that contain talc, cornstarch, or a mixture and women may have used different products at different times? A. Yes.	2 3 4 5 6 7 8 9	overreporting of talc use among those with a history of ovarian cancer. Q. We looked at O'Brien (2024) a lot. And what the question I have there is does the O'Brien (2024) article contain a disclaimer that the work was funded by the National Institutes of Health, but that the National Institutes of Health had no role in the design, conduct, or
2 3 4 5 6 7 8 9	THE WITNESS: It exists. BY MS. LEHMAN: Q. All right. And does O'Brien (2024) specifically state that the participants reporting talc use could be recalling products that contain talc, cornstarch, or a mixture and women may have used different products at different times? A. Yes. Q. Does O'Brien (2023)	2 3 4 5 6 7 8 9 10	overreporting of talc use among those with a history of ovarian cancer. Q. We looked at O'Brien (2024) a lot. And what the question I have there is does the O'Brien (2024) article contain a disclaimer that the work was funded by the National Institutes of Health, but that the National Institutes of Health had no role in the design, conduct, or interpretation of the study?
2 3 4 5 6 7 8 9 10	THE WITNESS: It exists. BY MS. LEHMAN: Q. All right. And does O'Brien (2024) specifically state that the participants reporting talc use could be recalling products that contain talc, cornstarch, or a mixture and women may have used different products at different times? A. Yes. Q. Does O'Brien (2023) acknowledge that when talking about that	2 3 4 5 6 7 8 9 10 11	overreporting of talc use among those with a history of ovarian cancer. Q. We looked at O'Brien (2024) a lot. And what the question I have there is does the O'Brien (2024) article contain a disclaimer that the work was funded by the National Institutes of Health, but that the National Institutes of Health had no role in the design, conduct, or interpretation of the study? A. Yes, that's there at the end.
2 3 4 5 6 7 8 9 10 11 12	THE WITNESS: It exists. BY MS. LEHMAN: Q. All right. And does O'Brien (2024) specifically state that the participants reporting talc use could be recalling products that contain talc, cornstarch, or a mixture and women may have used different products at different times? A. Yes. Q. Does O'Brien (2023) acknowledge that when talking about that there can be some evidence of recall bias	2 3 4 5 6 7 8 9 10 11 12	overreporting of talc use among those with a history of ovarian cancer. Q. We looked at O'Brien (2024) a lot. And what the question I have there is does the O'Brien (2024) article contain a disclaimer that the work was funded by the National Institutes of Health, but that the National Institutes of Health had no role in the design, conduct, or interpretation of the study? A. Yes, that's there at the end. Q. Okay. Now, you were asked a
2 3 4 5 6 7 8 9 10 11 12 13	THE WITNESS: It exists. BY MS. LEHMAN: Q. All right. And does O'Brien (2024) specifically state that the participants reporting talc use could be recalling products that contain talc, cornstarch, or a mixture and women may have used different products at different times? A. Yes. Q. Does O'Brien (2023) acknowledge that when talking about that there can be some evidence of recall bias of genital talc use among ovarian cancer	2 3 4 5 6 7 8 9 10 11 12 13	overreporting of talc use among those with a history of ovarian cancer. Q. We looked at O'Brien (2024) a lot. And what the question I have there is does the O'Brien (2024) article contain a disclaimer that the work was funded by the National Institutes of Health, but that the National Institutes of Health had no role in the design, conduct, or interpretation of the study? A. Yes, that's there at the end. Q. Okay. Now, you were asked a couple of questions about the Ovarian
2 3 4 5 6 7 8 9 10 11 12 13 14	THE WITNESS: It exists. BY MS. LEHMAN: Q. All right. And does O'Brien (2024) specifically state that the participants reporting talc use could be recalling products that contain talc, cornstarch, or a mixture and women may have used different products at different times? A. Yes. Q. Does O'Brien (2023) acknowledge that when talking about that there can be some evidence of recall bias of genital talc use among ovarian cancer survivors?	2 3 4 5 6 7 8 9 10 11 12 13 14	overreporting of talc use among those with a history of ovarian cancer. Q. We looked at O'Brien (2024) a lot. And what the question I have there is does the O'Brien (2024) article contain a disclaimer that the work was funded by the National Institutes of Health, but that the National Institutes of Health had no role in the design, conduct, or interpretation of the study? A. Yes, that's there at the end. Q. Okay. Now, you were asked a couple of questions about the Ovarian Cancer Cohort Consortium. That was Exhibit
2 3 4 5 6 7 8 9 10 11 12 13 14 15	THE WITNESS: It exists. BY MS. LEHMAN: Q. All right. And does O'Brien (2024) specifically state that the participants reporting talc use could be recalling products that contain talc, cornstarch, or a mixture and women may have used different products at different times? A. Yes. Q. Does O'Brien (2023) acknowledge that when talking about that there can be some evidence of recall bias of genital talc use among ovarian cancer survivors? MR. TISI: Objection.	2 3 4 5 6 7 8 9 10 11 12 13 14 15	overreporting of talc use among those with a history of ovarian cancer. Q. We looked at O'Brien (2024) a lot. And what the question I have there is does the O'Brien (2024) article contain a disclaimer that the work was funded by the National Institutes of Health, but that the National Institutes of Health had no role in the design, conduct, or interpretation of the study? A. Yes, that's there at the end. Q. Okay. Now, you were asked a couple of questions about the Ovarian Cancer Cohort Consortium. That was Exhibit No. 13.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	THE WITNESS: It exists. BY MS. LEHMAN: Q. All right. And does O'Brien (2024) specifically state that the participants reporting talc use could be recalling products that contain talc, cornstarch, or a mixture and women may have used different products at different times? A. Yes. Q. Does O'Brien (2023) acknowledge that when talking about that there can be some evidence of recall bias of genital talc use among ovarian cancer survivors? MR. TISI: Objection. THE WITNESS: Yes.	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	overreporting of talc use among those with a history of ovarian cancer. Q. We looked at O'Brien (2024) a lot. And what the question I have there is does the O'Brien (2024) article contain a disclaimer that the work was funded by the National Institutes of Health, but that the National Institutes of Health had no role in the design, conduct, or interpretation of the study? A. Yes, that's there at the end. Q. Okay. Now, you were asked a couple of questions about the Ovarian Cancer Cohort Consortium. That was Exhibit No. 13. A. Yes.
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	THE WITNESS: It exists. BY MS. LEHMAN: Q. All right. And does O'Brien (2024) specifically state that the participants reporting talc use could be recalling products that contain talc, cornstarch, or a mixture and women may have used different products at different times? A. Yes. Q. Does O'Brien (2023) acknowledge that when talking about that there can be some evidence of recall bias of genital talc use among ovarian cancer survivors? MR. TISI: Objection. THE WITNESS: Yes. BY MS. LEHMAN:	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	overreporting of talc use among those with a history of ovarian cancer. Q. We looked at O'Brien (2024) a lot. And what the question I have there is does the O'Brien (2024) article contain a disclaimer that the work was funded by the National Institutes of Health, but that the National Institutes of Health had no role in the design, conduct, or interpretation of the study? A. Yes, that's there at the end. Q. Okay. Now, you were asked a couple of questions about the Ovarian Cancer Cohort Consortium. That was Exhibit No. 13. A. Yes. Q. On your materials considered
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	THE WITNESS: It exists. BY MS. LEHMAN: Q. All right. And does O'Brien (2024) specifically state that the participants reporting talc use could be recalling products that contain talc, cornstarch, or a mixture and women may have used different products at different times? A. Yes. Q. Does O'Brien (2023) acknowledge that when talking about that there can be some evidence of recall bias of genital talc use among ovarian cancer survivors? MR. TISI: Objection. THE WITNESS: Yes. BY MS. LEHMAN: Q. And, in fact, did O'Brien	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	overreporting of talc use among those with a history of ovarian cancer. Q. We looked at O'Brien (2024) a lot. And what the question I have there is does the O'Brien (2024) article contain a disclaimer that the work was funded by the National Institutes of Health, but that the National Institutes of Health had no role in the design, conduct, or interpretation of the study? A. Yes, that's there at the end. Q. Okay. Now, you were asked a couple of questions about the Ovarian Cancer Cohort Consortium. That was Exhibit No. 13. A. Yes. Q. On your materials considered list includes an article published in the
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	THE WITNESS: It exists. BY MS. LEHMAN: Q. All right. And does O'Brien (2024) specifically state that the participants reporting talc use could be recalling products that contain talc, cornstarch, or a mixture and women may have used different products at different times? A. Yes. Q. Does O'Brien (2023) acknowledge that when talking about that there can be some evidence of recall bias of genital talc use among ovarian cancer survivors? MR. TISI: Objection. THE WITNESS: Yes. BY MS. LEHMAN: Q. And, in fact, did O'Brien (2023) call out the subgroup of ovarian	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19	overreporting of talc use among those with a history of ovarian cancer. Q. We looked at O'Brien (2024) a lot. And what the question I have there is does the O'Brien (2024) article contain a disclaimer that the work was funded by the National Institutes of Health, but that the National Institutes of Health had no role in the design, conduct, or interpretation of the study? A. Yes, that's there at the end. Q. Okay. Now, you were asked a couple of questions about the Ovarian Cancer Cohort Consortium. That was Exhibit No. 13. A. Yes. Q. On your materials considered list includes an article published in the Journal of National Cancer Institute titled
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	THE WITNESS: It exists. BY MS. LEHMAN: Q. All right. And does O'Brien (2024) specifically state that the participants reporting talc use could be recalling products that contain talc, cornstarch, or a mixture and women may have used different products at different times? A. Yes. Q. Does O'Brien (2023) acknowledge that when talking about that there can be some evidence of recall bias of genital talc use among ovarian cancer survivors? MR. TISI: Objection. THE WITNESS: Yes. BY MS. LEHMAN: Q. And, in fact, did O'Brien (2023) call out the subgroup of ovarian cancer survivors as a group for which there	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	overreporting of talc use among those with a history of ovarian cancer. Q. We looked at O'Brien (2024) a lot. And what the question I have there is does the O'Brien (2024) article contain a disclaimer that the work was funded by the National Institutes of Health, but that the National Institutes of Health had no role in the design, conduct, or interpretation of the study? A. Yes, that's there at the end. Q. Okay. Now, you were asked a couple of questions about the Ovarian Cancer Cohort Consortium. That was Exhibit No. 13. A. Yes. Q. On your materials considered list includes an article published in the Journal of National Cancer Institute titled "Analgesic use and ovarian cancer risk:
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	THE WITNESS: It exists. BY MS. LEHMAN: Q. All right. And does O'Brien (2024) specifically state that the participants reporting talc use could be recalling products that contain talc, cornstarch, or a mixture and women may have used different products at different times? A. Yes. Q. Does O'Brien (2023) acknowledge that when talking about that there can be some evidence of recall bias of genital talc use among ovarian cancer survivors? MR. TISI: Objection. THE WITNESS: Yes. BY MS. LEHMAN: Q. And, in fact, did O'Brien (2023) call out the subgroup of ovarian cancer survivors as a group for which there was a proportion in which the those	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	overreporting of talc use among those with a history of ovarian cancer. Q. We looked at O'Brien (2024) a lot. And what the question I have there is does the O'Brien (2024) article contain a disclaimer that the work was funded by the National Institutes of Health, but that the National Institutes of Health had no role in the design, conduct, or interpretation of the study? A. Yes, that's there at the end. Q. Okay. Now, you were asked a couple of questions about the Ovarian Cancer Cohort Consortium. That was Exhibit No. 13. A. Yes. Q. On your materials considered list includes an article published in the Journal of National Cancer Institute titled "Analgesic use and ovarian cancer risk: And analysis in the Ovarian Cancer Cohort
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	THE WITNESS: It exists. BY MS. LEHMAN: Q. All right. And does O'Brien (2024) specifically state that the participants reporting talc use could be recalling products that contain talc, cornstarch, or a mixture and women may have used different products at different times? A. Yes. Q. Does O'Brien (2023) acknowledge that when talking about that there can be some evidence of recall bias of genital talc use among ovarian cancer survivors? MR. TISI: Objection. THE WITNESS: Yes. BY MS. LEHMAN: Q. And, in fact, did O'Brien (2023) call out the subgroup of ovarian cancer survivors as a group for which there was a proportion in which the those reporting talc use increased from	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	overreporting of talc use among those with a history of ovarian cancer. Q. We looked at O'Brien (2024) a lot. And what the question I have there is does the O'Brien (2024) article contain a disclaimer that the work was funded by the National Institutes of Health, but that the National Institutes of Health had no role in the design, conduct, or interpretation of the study? A. Yes, that's there at the end. Q. Okay. Now, you were asked a couple of questions about the Ovarian Cancer Cohort Consortium. That was Exhibit No. 13. A. Yes. Q. On your materials considered list includes an article published in the Journal of National Cancer Institute titled "Analgesic use and ovarian cancer risk: And analysis in the Ovarian Cancer Cohort Consortium," correct?
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	THE WITNESS: It exists. BY MS. LEHMAN: Q. All right. And does O'Brien (2024) specifically state that the participants reporting talc use could be recalling products that contain talc, cornstarch, or a mixture and women may have used different products at different times? A. Yes. Q. Does O'Brien (2023) acknowledge that when talking about that there can be some evidence of recall bias of genital talc use among ovarian cancer survivors? MR. TISI: Objection. THE WITNESS: Yes. BY MS. LEHMAN: Q. And, in fact, did O'Brien (2023) call out the subgroup of ovarian cancer survivors as a group for which there was a proportion in which the those	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	overreporting of talc use among those with a history of ovarian cancer. Q. We looked at O'Brien (2024) a lot. And what the question I have there is does the O'Brien (2024) article contain a disclaimer that the work was funded by the National Institutes of Health, but that the National Institutes of Health had no role in the design, conduct, or interpretation of the study? A. Yes, that's there at the end. Q. Okay. Now, you were asked a couple of questions about the Ovarian Cancer Cohort Consortium. That was Exhibit No. 13. A. Yes. Q. On your materials considered list includes an article published in the Journal of National Cancer Institute titled "Analgesic use and ovarian cancer risk: And analysis in the Ovarian Cancer Cohort

		1		
1	MR. TISI: Do you have a copy	1	Page 416	
$\frac{1}{2}$		1 your memory, Dr. Kornak, that the IARC 2 press release stated that a causal role for		
$\frac{2}{3}$	•		talc could not be fully established?	
l .	•	1	•	
4	3	4 A. Yes, that's correct.		
5		5 MR. TISI: Objection.		
6		_	BY MS. LEHMAN:	
7	MS. LEHMAN: I'm not going to	7 Q. Okay. And when you were		
8	•	8 asked about O'Brien (2020), is it correct		
9	, 11 3	9 that O'Brien (2020) states, "However, thes		
10	, ,	10 findings may be affected by recall bias and		
11	considered list, Dr. Kornak.	11 a recent surge in talc-related lawsuits and		
12			media coverage has increased this	
13	· •		possibility"?	
14	,	14	MR. TISI: Objection.	
15		15	THE WITNESS: Yes.	
16	•	16	MS. LEHMAN: Okay. All right.	
17	Kornak Exhibit 23 for	17	Dr. Kornak, those are all the	
18	identification.)	18	questions I have at this time.	
19		19	Thank you.	
20	BY MS. LEHMAN:	20	MR. TISI: Have a good night.	
21	Q. It should be "Analgesic use	21	MS. LEHMAN: Robin, he will	
22	and ovarian cancer risk: An analysis of	22	read and sign.	
	the Ovarian Cancer Cohort Consortium."	23	MR. TISI: Robin, I'm going to	
24	MR. TISI: What was the year?	24	request a rough	
	Page 415		Page 417	
1	MS. LEHMAN: 2019. It's the	1	MS. LEHMAN: I guess my	
2		2	question is when do you think	
3	•	3	you'll be able to send the rough?	
4		4	Can you flip it over tonight?	
5		5	THE STENOGRAPHER: I will try.	
	considered list?	6		
7		7	(Whereupon, the deposition	
8		8	was concluded at 6:19 p.m.)	
	inaccurate to say the first time you ever	9	was concluded at 0.15 p.int.)	
	heard of the Ovarian Cancer Cohort	10		
	Consortium was during this deposition,	11		
	correct?	12		
13		13		
	•			
14		14		
15	•	15		
16	& ,	16		
17	•	17		
18		18		
19		19		
20		20		
21	BY MS. LEHMAN:	21		
22		22		
	questions about the IARC press release and	23		
24	you were shown the Lancet article and is it	24		

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1	CERTIFICATION	2		ERR	RATA	
2		3 4	PAGE	LINE	 CHANGE	
3	LHEDEDY CEDERAL 1 1 1 1	5				
4	I HEREBY CERTIFY that the proceedings and	6				
5	evidence are contained fully and accurately in the	7				
6	stenographic notes taken by me upon the foregoing	8				
8	matter on July 8, 2024, and that this is a correct transcript of same.	9				
9	transcript of same.					
10		10				
11		11				
12		12				
13		13				
	Robin S. Clark	14				
14	More of alle	15				
15	Robin L. Clark					
	Registered Professional Reporter	16				
16		17				
17		18				
18		19				
19		20				
20		21				
21	(The foregoing certification of this					
22	transcript does not apply to any reproduction of the	22				
	same by any means unless under the direct control	23				
24	and/or supervision of the certifying reporter.)	24				
	Page 419					Page 421
1	INSTRUCTIONS TO WITNESS	1 2		ACK	NOWLEDGMENT OF DEPONENT	
2		_		I, JO	HN KORNAK, PhD, do hereby	
3	Please read your deposition over carefully	3	,.			
4	and make any necessary corrections.	4	ceru	ry tnat	I have read the foregoing pages	
5	You should state the reason in the appropriate		and t	hat the	e same is a correct	
6	space on the errata sheet for any corrections	5	trans	crintio	on of the answers given by me to	
7	that are made.	6		_		
8	After doing so, please sign the errata	7	the q	uestio	ns therein propounded, except for	
9	sheet and date it.	,	the c	orrecti	ions or changes in form or	
10	You are signing same subject to the	8	1		:6	
11		9		tance,	if any, noted in the attached	
12	which will be attached to your deposition.	10		a Shee	et.	
13	It is imperative that you return the	10 11	DAT	E	SIGNATURE	
	original errata sheet to the deposing attorney	12				
	within thirty (30) days of receipt of the deposition	13		cribed	and sworn to before me this	
	transcript by you. If you fail to do so, the	13		day of	,	
17		14				
18		15	2024	•		
19			-	commi	ssion expires:	
20		17 18				
21		19				
22		20 21	Nota	ry Pub	blic	
23		22				
24		23				
∠+		24				

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Part IV, Rule 4:14

Depositions Upon Oral Examination

4:14-5. Submission to Witness; Changes; Signing If the officer at the taking of the deposition is a certified shorthand reporter, the witness shall not sign the deposition. If the officer is not a certified shorthand reporter, then unless reading and signing of the deposition are waived by stipulation of the parties, the officer shall request the deponent to appear at a stated time for the purpose of reading and signing it. At that time or at such later time as the officer and witness agree upon, the deposition shall be submitted to the witness for examination and shall be read to or by the witness, and any changes in form or substance which the witness desires to make shall be entered upon the deposition by the officer with a statement of the reasons given by the witness for making them. The deposition shall then be signed by the witness. If the witness fails to appear at the time stated or if the deposition is not signed by the witness, the officer shall sign it and state on the record the fact of the witness' failure or

refusal to sign, together with the reason, if any, given therefor; and the deposition may then be used as fully as though signed, unless on a motion to suppress under R. 4:16-4(d) the court holds that the reasons given for the refusal to sign require rejection of the deposition in whole or in part.

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ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

THE ABOVE RULES ARE CURRENT AS OF APRIL 1,

2019. PLEASE REFER TO THE APPLICABLE STATE RULES

OF CIVIL PROCEDURE FOR UP-TO-DATE INFORMATION.

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COMPANY CERTIFICATE AND DISCLOSURE STATEMENT

Veritext Legal Solutions represents that the

foregoing transcript is a true, correct and complete

transcript of the colloquies, questions and answers

as submitted by the court reporter. Veritext Legal

Solutions further represents that the attached

exhibits, if any, are true, correct and complete

documents as submitted by the court reporter and/or

attorneys in relation to this deposition and that

the documents were processed in accordance with

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